Lancaster Farming

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Congress OK's 1981 Farm Bill

BY DONNA TOMMELLEO

WASHINGTON, D.C. — Although the U.S. House of Representatives passed the 1981 Farm Bill, Wednesday night, by a slim margin of 205-203, just six days after the U.S. Senate's approval, the much discussed bill continued to draw fire from House Democrats.

"This isn't a farm bill — this is a family farm liquidation act of 1981," blasted Congressman Tom Harkin (Dem-Iowa).

Harkin was a member of the conference committee which had been deadlocked for nearly a month as it sought to iron out differences between the original House and Senate versions of the bill.

The legislation, formally known as the Agriculture and Food Act of 1981, was accepted by the Conferees following 16 conference sessions. The total cost of the four-year bill is estimated at $11 billion, compared to the $10.6 billion Senate bill and the $16.6 billion House version.

Harkin charged the Administration with "playing politics" with the farm legislation and thereby producing what amounts to a southern farm bill.

"The President is counting on the boll weevils to rescue him once again, so he sweetened price supports for sugar, cotton, peanuts and other southern crops. Northern crops, like wheat, corn, other feed grains and dairy were just left out in the cold, despite the fact that farm economies need help badly," Harkin said.

A second Iowa congressman, Berkley Bedell (Dem) expressed extreme disappointment of the approved bill.

"Although I believe that we do need to make a balanced reduction in government expenditures, I think that we are making a serious mistake if we attempt to achieve budget savings by approving a weak farm bill that provides inadequate support for our nation's number one industry," Bedell stated. "I think that a strong farm program should be recognized as an investment essential to turning this country around."

The final House tallies included 80 Democrats voting in favor; 125 Republicans in favor; 144 Democrats against; 59 Republicans against.

However, Senate Farm Bill proponents, passed the Conferees report last week by a vote of 68-31.

"I am very pleased that the Senate strongly — and very wisely — supported the Farm Bill. I caution that the alternative to this

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New egg co-op organizes

BY DICK ANGLESTEIN

LANCASTER — A new national egg marketing cooperative, which already includes owners representing 18 million birds and with the possibility it could cover more than twice that number, is being organized.

The new co-op, called U. S. Egg Marketers, Inc., was incorporated on Dec. 10, according to Boyce Overstreet, of Lakewood, N. J., who is serving as secretary.

While the co-op already represents some 18 million birds, the number of producers signed up totals just seven. Of the 18 million, approximately 14 million birds are owned by Fred Adams, reportedly the largest layer operator in the nation. Adams is also president of the co-op.

"We have seven producers signed up, representing 18 million birds or 220,000 cases of production a week," according to Overstreet.

"In addition, there are firm

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Home and Youth

Homestead Notes, B2; Home on the Range, B6; FWS news, B9; 4-H news, B16; FFA news, B14; Kid's Korner, B10; Man's best friend, B18; Christmas specials, B5,9.

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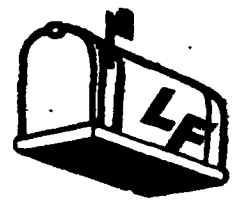


The year is drawing to a close quickly and everyday our mail is filled with DHIA reports. Find 18 reports representing 21 counties throughout the paper.

Delaware Valley College tops Bucks County DHIA. Read about their key to success on page A28.

Penn State will celebrate a very merry Christmas with the $140,000 they received from the Ag Arena Sale last Friday. For buyers and consignors, see page A24.

Lancaster joins Adams in LT alert

LANCASTER — Chief veterinarian Max A. VanBuskirk, head of the Pennsylvania Department of Agriculture's Bureau of Animal Industry, confirmed an outbreak of the contagious poultry disease, laryngotracheitis, LT, in Lancaster County on Thursday.

This latest outbreak, which occurred in the Quarryville region, marks the third confirmed outbreak of this disease in southeastern Pennsylvania in the past week. Two additional outbreaks occurred in flocks located in the York Springs area of Adams County.

This disease, which can result in a 5-70 percent loss in the flock depending on severity of outbreak and bird conditions, threatens the poultry industry with a recurrence of a previous outbreak that left a high death toll in Pennsylvania's poultry houses.

According to Lancaster County Extension Agent Jay Irwin, this disease caused 750,000 birds to be placed under quarantine in 1978. "Winter is the time of year that we find outbreaks of this disease because there is less sunshine to prevent its spread. These confirmed outbreaks mean LT is out and on the prowl again."

According to VanBuskirk, birds suffering with LT are actually suffocating from the disease. The virus which causes the disease causes the birds to create an "unusual amount of mucous in the upper trachea. Their tracheas then become ulcerated and may bleed, with the birds shaking and sneezing out bloody mucous as they try to clear the blockage."

Other symptoms of a flock suffering from this viral infection include reduced production, watery eyes, coughing, wheezing, and twisting their necks.

The chief veterinarian stressed

(Turn to Page A33)

RCWP to receive $700,000 grant

LANCASTER — The Agricultural Stabilization and Conservation Service in Washington recently approved a $700,000 grant for the Rural Clean Waters Program in Lancaster to handle inventory and monitoring of the Conestoga Headwaters.

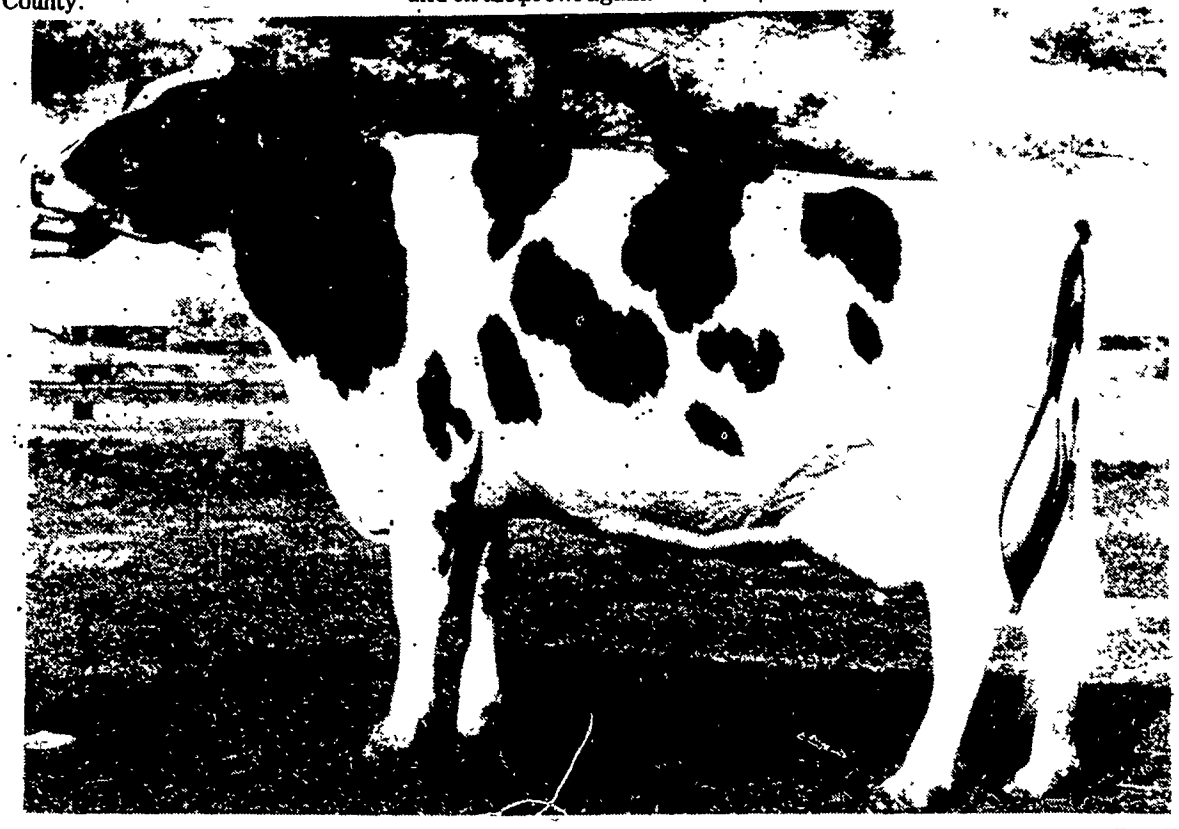
According to Richard Pennay, ASCS ag program specialist in Harrisburg, "The program was in competition with several other projects. We were one of two projects approved;" the other program being located in North Dakota.

The Service requires a work plan be drawn up within 90 days of approval date. Pennay said this plan will include "an outline of the chemical composition of the water, what we're going to monitor, how we're going to do it, and the time frame we expect to do it in."

The project, instigated to clean up non-point source pollution (such as sediment, manure runoff, fertilizer and herbicide runoff and sewage effluent), includes an inventory to identify current water-quality problems and what is needed to correct them. In their sampling program the government will be drilling deep wells to sample ground water. These samples will then be tested by the State Bureau of Water Quality.

In addition to the inventory and monitoring, farmers in the Lancaster County Conestoga Watershed are receiving technical and financial assistance in solving their conservation problems. Under RCWP, farmers in Lancaster County can request financial assistance in remedying on-farm problems concerning erosion or manure management with the government picking up 50 to 75 percent of the cost.

The $700,000 allocated by the ASCS will be added to the $1.9 million already in the program. DK



Champion of the 1981 Royal Winter Agricultural Fair in Canada, 1980 Supreme Champion and All-American Aged Cow, Northcroft Ella Elevation became the 17th female in Holstein history to score 97 2E during her recent classification. See story on page A21.

Livestock market and auction news

Lancaster Market

Monday, December 14
Report supplied by USDA

	Cattle	Calves	Hogs	Sheep
Today	578	82	1215	419
Last Mon.	967	89	1041	165
Last Year	584	89	766	252
Monday's Auction	606	89	1200	462
Last Monday's Auction	830	95	1040	190

CATTLE: Compared to last Wednesday slaughter steers steady to weak, instances 1.00 lower; slaughter heifers .50-1.00 lower; cows .50-1.00 higher; bullocks 4.00-6.00 lower; bulls 3.00-5.00 lower. Supply included 55% slaughter steers, 8% slaughter heifers, 10% cows, and 27% bulls.

SLAUGHTER STEERS: Good and Choice 1-2 1050-1350 lb. 60.50-61.50, five head 61.75-63.75; Choice 2-4 1050-1400 lb. 58.00-60.50, few 60.50-61.35; high Good and low Choice 2-3 56.00-58.50; Good 2-3 53.00-56.00; Good and Choice 1200-1500 lb. Holsteins 51.75-54.00; Standard 1-2 46.50-51.50.

SLAUGHTER HEIFERS: Choice 2-3 875-1050 lb. 55.00-57.35; Good 2-3 825-1025 lb. 51.50-55.00.

COWS: Utility and Commercial 1-3 38.00-39.75; Cutter 1-2 35.75-38.50.

BULLOCKS: Choice 1050-1300 lb. 54.75-56.50, few 56.50-57.50; Good 2-3 1000-1250 lb. 50.75-52.50.

BULLS: Yield grade 1 1450-1800 lb. 47.50-50.75, few 51.00-53.60; yield grade 2 1000-1400 lb. 46.00-48.00, several 950-1050 lb. 40.00-45.00.

VEAL CALVES: Vealers mostly steady.

VEALERS: One lot Prime special fed 300-330 lb. 122.00; Choice 140-300 lb. 85.00-100.00, few 100.00-105.00; high Good and low Choice 140-250 lb. 65.00-85.00, 115-140 lb. 52.00-65.00, 80-110 lb. 40.00-50.00.

RETURNED TO FARM: Bulk 85-115 lb. Holstein bulls 80.00-91.00.

SHEEP: Wooled lambs fully steady; slaughter ewes steady. Supply included about 60 head 20-50 lb. new crop lambs.

WOOLED LAMBS: Choice 65-110 lb. 52.00-58.00, few 60.00-62.00; Good 60-100 lb. 45.00-49.00, few 49.00-52.00. About 60 head Choice 20-50 lb. new crop lambs 132.00-170.00.

SLAUGHTER EWES: Utility and Good 23.00-35.00, couple lots 15.00-19.00.

GOATS: All goats sold by the head at mainly 32.00-48.00.

Vintage Livestock

Tuesday, December 15
Report supplied by USDA

	Cattle	Calves	Sheep
Today	620	747	10
Last Tues.	786	913	26
Last year	668	694	6

CATTLE: Compared to last Tuesday slaughter steers 1.00-2.00 higher; slaughter heifers 1.00-2.00 higher; cows 1.00-2.00 higher, instances 3.00 higher; insufficient volume bulls or bullocks for a market test. Supply included 50 percent slaughter steers, 43 per cent cows, 5 per cent slaughter heifers and 2 per cent bulls.

SLAUGHTER STEERS: Few high Choice and Prime 3-4 1200-1450 lb. 63.35-64.60; Good and Choice 1-2 1050-1400 lb. 63.50-65.00, 10 head 65.50-68.10; Choice 2-4 1075-1475 lb. 60.50-63.25; high Good and low Choice 2-3 1050-1450 lb. 59.50-60.75; Good 2-3 1050-1275 lb. 55.00-59.25.

SLAUGHTER HEIFERS: Choice 2-3 960-1215 lb. 59.00-61.50, couple 61.85-63.75.

COWS: Utility and Commercial 1-3 37.75-40.75, few 41.00-43.50; Cutter 1-2 36.75-40.00, few 40.00-40.50; Canner and low Cutter 34.50-37.00.

BULLS: Few yield grade 1-2 1350-2200 lb. 45.50-48.00.

VEAL CALVES: Vealers firm to 5.00 higher. Supply included 560 in graded sale of which 73 per cent sold to return to farm.

VEALERS: Few Choice 140-300 lb. 85.00-95.00, individual 102.00; high Good and low Choice 140-290 lb. 70.00-85.00, 110-140 lb. 57.00-70.00, 90-110 lb. 47.00-57.00, 70-90 lb. 42.00-48.00.

RETURNED TO FARM: 55 Head 90-105 lb. Holstein heifers 112.00-122.00, one 16 head lot 115-120 lb. 100.00, 20 head 80-85 lb. 54.00, 25 head small frame 90-105 lb. 92.00-102.00; 36 head 120-125 lb. Holstein bulls 90.00, 145 head 100-115 lb. 92.50-101.00, 40 head 90-95 lb. 57.00, 70 head small frame 100-115 lb. 55.50-57.00.

SHEEP: Insufficient volume for a market test; few Utility and Good slaughter ewes 19.00-23.00.

Lancaster Auction

Wednesday, December 16, 1981
Report supplied by USDA

	Cattle	Calves	Hogs	Sheep
Today	283	16	768	4
Last Wed.	570	22	964	37
Last Year	413	64	1170	2
Wednesday's Auction	255	20	815	4
Last Wednesday's Auction	329	27	885	38

CATTLE: Compared to Monday small supply slaughter steers, heifers, and cows firm to 1.00 higher; bulls and bullocks not tested. Supply included 58 per cent slaughter steers, 23 per cent slaughter heifers, 14 per cent cows, and 5 per cent bulls.

SLAUGHTER STEERS: Few Choice 2-3 1050-1225 lb. 59.00-60.25; high Good and low Choice 2-3 1000-1250 lb. 57.25-59.50; few Good 2-3 55.00-57.50; Good and Choice 1220-1460 lb. Holsteins 52.00-53.25; few Standard 1-2 48.00-52.00.

SLAUGHTER HEIFERS: Good 2-3 900-1000 lb. 53.50-56.85, few 750-880 lb. 50.00-53.75.

COWS: Utility 2-3 beef breed 41.75-44.00; Utility and Commercial 1-3 38.50-41.00; Cutter 1-2 36.50-40.00, couple 40.50-41.25.

BULLS: Few yield grade 1-2 1300-1800 lb. 47.50-51.35.

VEAL CALVES: No market test.

SHEEP: No market test.

New Holland Livestock

Thursday, December 17
Report supplied by USDA

CATTLE: 857. Compared to last Thursday slaughter steers .50-1.00 higher, with early sales fully 2.00 higher; slaughter heifers not well tested; cows 3.00-5.00 higher, instances 6.00 higher; bullocks not well tested; bulls 1.00-2.00 higher. Supply included 52 per cent slaughter steers and 37 per cent cows.

SLAUGHTER STEERS: Few high Choice and Prime 3-4 1175-1375 lb. 63.60-65.25; Good and Choice - 1-2 63.75-65.60; Choice 2-4 1000-1425 lb. 61.75-65.00, several late 60.50-61.75; high Good and low Choice 2-3 1000-1325 lb. 58.75-61.75; Good 2-3 55.00-59.00; few Good and Choice 1150-1400 lb. Holsteins 52.00-54.50; Standard 1-2 46.00-51.00.

SLAUGHTER HEIFERS: Few Choice 2-3 950-1150 lb. 54.00-56.00.

COWS: Utility and Commercial 1-3 39.75-44.50, few 44.50-46.50; Cutter 1-2 38.00-41.75, 41.75-44.50; Canner and low Cutter 35.75-39.00.

BULLOCKS: Few Choice 1000-1275 lb. 59.00-62.00.

BULLS: Yield grade 1 1200-1800 lb. 49.75-52.50, few 52.50-54.50; yield grade 2 1000-1400 lb. 47.00-50.00.

VEAL CALVES: 551. Vealers firm to 3.00 higher, instances 6.00 higher on Prime special fed veal. Demand good for Holstein bulls to return to farm.

VEALERS: Choice and Prime special fed veal 104.00-116.00, few 116.00-122.00; Choice 140-280 lb. 90.00-100.00, few 100.00-105.00; high Good and low Choice 140-280 lb. 65.00-85.00, 1150-1400 lb. 55.00-65.00, 80-115 lb. 40.00-50.00, few 50.00-.00, 60-80 lb. 35.00-42.00.

RETURNED TO FARM: Bulk 90-115 lb. Holstein bulls 76.00-94.00, few 94.00-101.00; several small frame 80-105 lb. 54.00-75.00.

SHEEP: 31. Wooled lambs 2.00-4.00 higher; few slaughter ewes 1.00-2.00 higher.

WOOLED LAMBS: Couple Prime 95-110 lb. 63.00-64.00; Choice 85-110 lb. 53.00-59.00.

SLAUGHTER EWES: Utility and Good 22.00-35.00.

GOATS: 29. All goats sold by the head, mainly 35.00-47.00, few 48.00-60.00.

Lancaster Co. Weekly

Friday, December 18

	Cattle	Calves
This Week	2800	1419
Last Week	3728	1557
Last Year	2827	1373

CATTLE: Slaughter steers 1.00 to instances 2.00 higher; slaughter heifers firm to 1.00 higher, cows closed the week 3.00-5.00 higher, instances 6.00 higher; bullocks generally 2.00-4.00 lower although few late sales steady; small supply late bulls 1.00-2.00 higher. Supply included 44 per cent slaughter steers, 24 per cent cows, 9 per cent bulls, 6 per cent slaughter heifers with the balance feeder steers.

SLAUGHTER STEERS: High Choice and Prime 3-4 1175-1450 lbs. 63.35-65.25; Good and Choice 1-2 1050-1400 lbs. 63.50-65.50, 12 head 65.50-68.10; Choice 2-4 1050-1475 lbs. 59.00-65.00 mainly 60.50-63.25; high Good and low Choice 2-3 1050-1450 lbs. 58.75-61.75, Good 2-3 53.50-59.00; Good and Choice 1150-1450 lb. holsteins 51.75-54.50, Standard 1-2 46.50-51.50.

SLAUGHTER HEIFERS: Choice 2-3 875-1215 lbs. 54.00-59.50, few Yield Grade 2 60.00-63.75; Good 2-3 875-1000 lbs. 52.00-55.50, few 725-875 lbs. 50.00-53.75.

COWS: Utility and Commercial 1-3 closed the week at 39.50-44.50, few 44.50-46.50, Cutter 1-2 38.00-41.75, few 42.00-42.50, Canner and low Cutter 35.50-39.00.

BULLOCKS: Choice 1050-1300 lbs. 54.75-57.50, few late 59.00-62.00; Good 1000-1250 lbs. 51.00-55.00.

BULLS: Yield Grade 1 1400-1800 lbs. 47.50-53.00 few late 53.00-54.50; Yield Grade 2 1000-1400 lbs. 45.50-59.00 few 950-1000 lbs. 40.00-45.00.

VEAL CALVES: Vealers firm to 5.00 higher, instances 6.00 higher on Prime special fed. Demand good for holstein bulls returned to farm.

VEALERS: Prime special fed 280-330 lbs. 104.00-116.00 few 116.00-122.00; Choice 140-280 lbs. 85.00-100.00 few 100.00-105.00; high Good and low Choice 140-280 lbs. 65.00-85.00, 115-140 lbs. 55.00-70.00, 80-115 lbs. 40.00-53.00 few 53.00-57.00, 60-80 lbs. 35.00-45.00.

RETURNED TO FARM: Bulk 90-105 lb. holstein heifers 112.00-122.00, one lot 115-120 lbs. 100.00, one lot 80-85 lbs. 54.00; bulk small frame 90-105 lbs. 90.00-102.00; bulk 90-115 lb. holstein bulls 75.00-95.00 with 125 head 95.00-101.00, several small frame 80-115 lbs. 54.00-75.00.

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11:00 A.M. - Hay, Straw & Ear Corn
1:30 P.M. - Fat Steers, Bulls, Cows & Veal
WEDNESDAY'S AUCTION
12:00 Noon - Dairy Sale
1:30 P.M. - Feeder Pig Sale
THURSDAY'S AUCTION
11:00 A.M. - Beef Sale
Order of Sale, Bulls, Fat Steers, Cows, Veal
3:30 P.M. - Calf Sale
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Hog Markets

Lancaster Feeder Pigs

Tuesday, Dec. 15
Report supplied by USDA

Today	1253
Last Tuesday	1218
Last Year	1183

TREND: Compared to last Tuesday *feeder pigs 3.00-8.00* lower, instances 12.00 lower on 40-60 lbs. US 1-2. All pigs weighed on arrival and sold by the hundred weight.

US 1-2: 30 head 21-27 lbs. 77.00-80.00; 83 head 30-39 lbs. 58.50-69.00; 18 head 33 lbs. 77.00; 431 head 40-49 lbs. 55.00-75.50; 164 head 50-59 lbs. 54.00-67.00; 61 head 60-69 lbs. 52.00-60.00; 34 head 70-95 lbs. 51.00-54.00.

US 2-3: 51 head 30-39 lbs. 64.00-70.00; 62 head 40-49 lbs. 55.00-61.00; 36 head 50-59 lbs. 47.00-56.00; 35 head 60-75 lbs. 48.00-50.00; 32 head 80-89 lbs. 46.00-51.00.

US 3: 89 head 30-70 lbs. 48.00-64.00; 13 head 20-30 lbs. 70.00-79.00.

New Holland Feeder Pigs

Wednesday, Dec. 16
Report supplied by USDA
Feeder Pigs

Today	511
Last Wednesday	811
Last Year	1044

TREND: Compared to last Wednesday feeder pigs steady, instances 5.00 higher. All pigs weighed on arrival and sold by the hundred weight.

US 1-2: 56 head 22-37 lbs. 86.00-89.00; 53 head 46-49 lbs. 81.00-85.00; 42 head 46-50 lbs. 67.00-77.00; 66 head 51-52 lbs. 80.00-85.00; 22 head 59 lbs. 67.00; 15 head 61-70 lbs. 55.00-63.00.

US 2-3: 71 head 25-35 lbs. 76.00-89.00; 51 head 40-50 lbs. 66.00-82.00; 20 head 65-86 lbs. 42.00-53.00.

UTILITY: 44 head 17-26 lbs. 76.00-84.00.

Peoria Hogs

Thursday, Dec. 17
Report supplied by USDA

HOGS: 3500. Barrows & gilts moderate, steady to 50 higher than Wednesday's high time, full advance noted on weights under 240 lbs. US 1-2 200-240 lbs. 40.00-40.50; US 1-3 200-240 lbs. 39.00-40.00; 240-260 lbs. 37.50-39.00.

SOWS: Steady to 1.00 higher. (20%). US 1-3 350-400 lbs. 32.00-32.50, small lot 31.50; 450-500 lbs. 32.50-34.00; 500-650 lbs. mostly 34.00.

BOARS: Over 300 lbs. 32.50-34.50; over 300 lbs. 29.50.

St. Louis Hogs

Thursday, Dec. 17
Report supplied by USDA

HOGS: 5000. Barrows & gilts fairly active, 25-50 higher. US 1-2 200-240 lbs. 40.25-40.50; US 1-3 220-250 lbs. 39.50-40.25; 250-260 lbs. 39.00-39.50; US 2-3 250-270 lbs. 38.00-39.00.

SOWS: Steady to 50 higher. (About 12%). US 1-3 300-500 lbs. 31.75-33.00; Over 500 lbs. 33.50-35.50.

BOARS: Over 250 lbs. 29.50; 200-250 lbs. 34.50; 11 head lot about 225 lbs. 35.00.

Lancaster Hogs

Lancaster Stockyards
Report supplied by USDA
Monday, Dec. 14

HOGS: Barrows and gilts 50 to mostly 1.00 higher.

BARROWS AND GILTS: US 1-2 200-245 lbs. 44.00-44.50; US 1 205-245 lbs. 45.00-46.50, few 46.50-48.50; US 1-3 210-260 lbs. 43.50-44.00.

SOWS: US 1-3 300-450 lbs. 30.0-32.00, few 32.00-33.00; 450-600 lbs. 31.00-33.00, few 33.00-34.00.

Tuesday, Dec. 15
Report supplied by USDA

Today	203
Last Tuesday	285

TREND: Compared to Monday, barrows and gilts 50-1.00 lower, instances 1.25 lower.

BARROWS AND GILTS: US 1-2 200-245 lbs. 43.00-43.25; US 1 210-240 lbs. 45.60-47.00, Few Selected 47.00-47.50. US 1-3 200-260 lbs. 42.25-43.00.

Wednesday, Dec. 16

HOGS: Compared to Tuesday barrows and gilts 50-1.00 lower, after few early sales being fully steady.

BARROWS AND GILTS: US 1-2 200-240 lbs. 42.25-43.25, Few early 43.50-44.00; US 1 210-240 lbs. 44.25-45.25, Few Selected 45.50-46.00; US 1-3 200-260 lbs. 41.75-42.25, Few late 41.00-41.75.

SOWS: US 1-3 350-400 lbs. 30.00-31.00; 400-600 lbs. 31.50-32.50, Few 32.50-33.25.

Vintage Hogs

Saturday, December 12

1 and 2, 210-235 pounds, 43-44.50; 2 and 3, 200-245, 42-43; Sows, 300-500, 34-35; Boars 300-500 pounds, 32-36.

Wednesday, December 16

1 and 2, 210-235 pounds, 42-43.50; 2 and 3, 200-245 pounds, 40.50-42; Sows, 300-500, 29-31; one Boar, 305 pounds, 32.

U.S. Inspected Livestock Slaughter

Estimated Daily Livestock Slaughter — Wednesday, Dec. 17
Report supplied by USDA **Estimated Daily Livestock Slaughter**
Under Federal Inspection

	CATTLE	CALVES	HOGS	SHEEP
This Week	495,000	47,000	1,414,000	96,000
Last Week	507,000	42,000	1,424,000	96,000
Last Year	470,000	37,000	1,449,000	82,000

Market courtesy of USDA.

Chicago Grain Futures

(Closing Bids as of Thursday Dec. 17)

	Corn	Wheat	Soybeans	Soybean Meal
Jan.	—	—	6.22	185.10
Mar.	2.69¾	4.01½		186.40
May	2.79¾	4.07½	6.43½	188.30
July	2.84¾	4.06¾	6.56¾	

Trend - Corn is higher, Wheat is higher, Soybeans are higher, Soybean Meal is higher.

Market Provided by Commodity Department
Dean Witter Reynolds, Inc.

New Holland Hogs

Monday, Dec. 14
Report supplied by USDA

Today	1266
Last Monday	1702
Last Year	1468

TREND: Compared to last Monday barrows and gilts 50-1.00 higher, instances 2.00-2.50 higher on US 1.

BARROWS AND GILTS: US 1-2 205-245 lbs. 43.50-44.25, Few 44.25-44.50. US 1 210-245 lbs. 45.50-46.50, Few 47.50-48.25. US 1-3 200-260 lbs. 42.75-43.50.

Lancaster Hogs

Saturday, Dec. 12
Report supplied by auction

1130 head.

U.S. 1-2 210-235 lbs. 46.00-47.50, few 48.00-49.85; U.S. 1 & 2 210-245 lbs. 43.50-44.50; U.S. 2 & 3 200-255 lbs. 43.00-43.50; Sows 350 lbs. and up 32.50-35.50; Boars 200-300 lbs. 36.00-37.00; Boars 300 lbs. and up 31.00-32.50.

Indianapolis Hogs

Thursday, Dec. 17

HOGS: 1100 (Fell 500 short of estimated 1600). Barrows & gilts moderately active, 25-1.00 higher. US 1-2 210-250 lbs. 40.00-41.00; US 1-3 220-260 lbs. 40.00-40.50.

SOWS: Moderately active, 50-1.00 lower in limited comparison. (9%). US 1-3 300-400 lbs. 30.00-31.00; 500-550 lbs. 35.00-35.50.

BOARS: Few 200-250 lbs. 32.00-33.00; 300-350 lbs. 27.00-28.00; over 350 lbs. 26.00.

Futures Trading

(Closing Bids as of Thursday, Dec. 17)

	Chicago Cattle	Chicago Hogs	New York Maine Potatoes
Feb.	56.99	40.67	
Apr.	56.57	38.82	8.31
June	57.72		
July		42.87	

Trend - Cattle are higher, Hogs are higher. Potatoes are lower.

Market Provided
by Commodity Department
Dean Witter Reynolds, Inc.

Belknap Auction

Wednesday, December 16
Report supplied by PDA

CATTLE 82. Couple Good slaughter heifers 45.00 and 47.00, few Standard 37.50-44.00. Utility & Commercial slaughter cows 36.50-40.00, Cutters 34.00-38.00, few Canner & Low Cutter 27.00-33.25. Few Yield Grade Grade #1 and 2 790-1650 lbs. slaughter bulls 40.00-46.00. Medium Frame #1 and 2 300-460 lbs. feeder steers 32.00-40.00, few Large Frame #1 320-565 lbs. 39.75-45.25; Medium Frame #1 300-510 lbs. feeder heifers 32.00-38.00, few 590-730 lbs. 38.50-40.75.

CALVES 94. Choice vealers 79.00-88.00, few Good 75.00-79.00, Standard & Good 90-120 lbs. 45.00-58.00, 65-85 lbs. 30.00-45.00, few Utility 50-80 lbs. 20.00-30.00. Farm calves, holstein bulls 100-125 lbs. 59.00-72.50; beef cross bulls & heifers 60-100 lbs. 47.00-64.00.

HOGS 157. US No. 1-2 210-270 lbs. barrows & gilts 41.00-42.00, No. 1-3 200-250 lbs. 40.00-41.25, few No. 2-3 215-280 lbs. at 39.00, No. 1-3 105-185 lbs. 31.75-35.00. US No. 1-3 330-550 lbs. sows 39.00-41.00, one No. 2-3 670 lbs. at 36.75. Boars 26.00-32.00.

FEEDER PIGS 94. US No. 1-3 20-35 lbs. feeders pigs 9.00-24.00 per head, No. 1-3 50-65 lbs. 29.00-35.00, Utility 30-40 lbs. 5.00-13.00 per head.

SHEEP 9. Few Good 65-80 lbs. wooled slaughter lambs 35.00-36.50.

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Poultry Markets

N. E. Weekly Shell Egg Report

Tuesday, Dec. 15
Report supplied by USDA

Prices paid per dozen Grade "A" Brown eggs in cartons delivered to retail stores:

	Ex. Large	Large	Medium	Small
MASS.X	92-100	90-98	85-93	60-68
Mostly	94-98	92-96	87-91	62-66
N. HAMP.	87-93	85-91	80-86	55-61
Mostly	89-92	87-90	82-85	57-60
R.I.	96-97	94-95	89-90	64-65
VERMONT	94-103	92-100	87-96	–
Mostly	96-97	94-95	89-91	–
MAINE	92-94	90-92	85-87	60-62

X Includes Central and Western Sections only.

Weekly New York Egg Market

From Friday, Dec. 11 to Dec. 18

	Fri.	Mon.	Tues.	Wed.	Thurs.
WHITE					
Jumbo	79	79	79	79	79
Ex Large	77	77	77	77	77
Large	76	76	76	76	76
Mediums	72	72	72	72	72
Pullets	60	60	60	60	60
BROWN					
Jumbo	97	97	97	97	97
Ex Large	91	91	91	91	91
Large	89	89	89	89	89
Mediums	Unquoted				
Pullets	Unquoted				
Peewees	Unquoted				
Off Grade					
Large	68	68	68	68	68
Checks	40	40	39	39	39

Tone: Buying interest improved. Supplies ample. Market steadier.
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Philadelphia Eggs

Wednesday, Dec. 16
Report supplied by USDA

Prices unchanged. Cartoning demand fairly good. Offerings irregularly distributed but generally fully adequate for call. Undertone fully steady to firm.

Prices to Retailers: Sales to volume buyers, consumer grades white eggs in cartons delivered store door:

A Extra Large 76-78½; A Large 75-77½; A Medium 70-72½.

Lancaster Farming

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Heinsey's Poultry Market

Root's, East Petersburg
Tuesday, Dec. 15
Report supplied by auction

MUSCOVY DUCKS, DRAKES: range .80-1.00 per lb.

MUSCOVY DUCKS, HENS: range .60-.78 per lb.

PEKING DUCKS: range .50-.62 per lb.

PULLETS: 6-8 lbs. range .50-.54 per lb.

RED FOWL: 4-5 lbs. range .17-.22 per lb.

RED FOWL: 5-6 lbs. range .20-.30 per lb.

CROSSBRED FOWL: 6-9 lbs. range .22-.32 per lb.

CROSSBRED ROOSTERS: 4-6 lbs. range .40-.52 per lb.

CROSSBRED ROOSTERS: 7-12 lbs. range .30-.54 per lb.

GUINEA FOWL; range 1.05-1.30 ea.

BANTY ROOSTERS: range 1.00-2.50 ea.

BANTY HENS: range .25-.85 ea.

GEESE: 9-10 lbs. range .32-.44 per lb.

GEESE: 11-17 lbs. range .60-.78 per lb.

TURKEYS: 16-32 lbs. range .34-.38 per lb.

PIGEONS: range .85-1.30 ea.

WHITE PIGEONS: range 1.75-2.25 ea.

RABBITS: 4-6 lbs. range .80-1.14 per lb.

RABBITS: 7-11 lbs. range .60-.96 per lb.

GUINNEA PIGS: range .05-.75 ea.

CAPONS: 11-13 lbs. range .66-.80 per lb.

PARTRIDGE: range 3.45-3.55 ea.

TOTAL AMOUNT COUPS: 698.

Eastern Pa. & N.J. Poultry

Wednesday, Dec. 16
Report supplied by USDA

Prices mostly one cent lower for next weeks pickups on light type hens. Farm offerings fully adequate for a fair but unaggressive buyer interest. Offerings of heavy type ample for a slow demand.

Prices Paid at Farm:

Light Type Hens: 9-10, mostly 9½-10.

F.O.B. Plant: 11-12, mostly 11½-12.

Heavy Type Hens: TFWER.

New York Multiple Drop Broiler Report

Wednesday, Dec, 16

Current broiler/fryer negotiated prices for immediate delivery includes mostly multiple-drop shipments to New York City from Delmarva.

RANGE: U.S. Grade A 41-44½; Premium (X) U.S. Grade A 45-46.

WTD. AVG.: U.S. Grade A 44.05; Premium (X) 45.84.

(X) Includes special services, selected competitive brands, etc.

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Nest Run Eggs

Prices are from Egg Clearinghouse, Inc., (ECI) Durham, N.H. and reflect trading prices for gradable nest run eggs (GNR) on ECI, a nationwide trading center for producers, packers and marketers. GNR eggs are classified by weight in 30-dozen cases, and traded in lots of either 300 or 750 cases. Prices are FOB buyers dock, and are computed Tuesday and Thursday of each week. This week's prices for each classification were:

Classification	Net Weight Per Case	Dec. 15 Tuesday	Dec. 17 Thursday
Class 1 - Large	48 lbs.	60	60½
Class 2 - Large	45 lbs.	57	57
Class 3 - Medium	42 lbs.	52	52
Class 4 - Small	39 lbs.	48	47½
Breaking Stock	48 lbs.	50	50
Checks	48 lbs.	45	45

Delmarva Poultry

Wednesday, Dec. 16
Report supplied by USDA

R.T.C. movement light to fair at best on whole birds, light on legs and breasts. Fairly good on wings. Slaughter schedules moderately heavy at most plants. Today's L.T.L. asking prices fairly steady on U.S. Grade A at 43-46 cents. Advance interest nil. Live supplies fully adequate at weights in a wide range. Undertone about steady

Estimated slaughter of broiler fryers in Delmarva (000).

Estimated 12/16 1702; Actual 12/9 1765; Actual 12/14 1753; Average Weights 12/14 4.15; 12/7 4.19.

Baltimore Eggs

Wednesday, Dec. 16
Report supplied by USDA

Market steady. Demand fairly good. Supplies are ample to adequate.

Cartoned Eggs: Prices to retailers, state graded (min one case sale) white.

Grade A Large	76-81
Grade A Medium	72-77

Fogelsville Poultry

Fogelsville, Pa.
Tuesday, Dec. 15
Report supplied by USDA

HENS, LIGHT TYPE: range 5-12, mostly 5.

HENS, HEAVY TYPE: range 26-33, mostly 26.

PULLETS: range 30-56, mostly 48.

CAPONS: range 30-90, mostly 56.

FRYERS: range 36-54, mostly 42.

DUCKS: range 70.

DRAKES: range 70.

GEESE: range 30-75, mostly 70.

TURKEYS, TOMS: range 39.

TURKEYS, HENS: range 33.

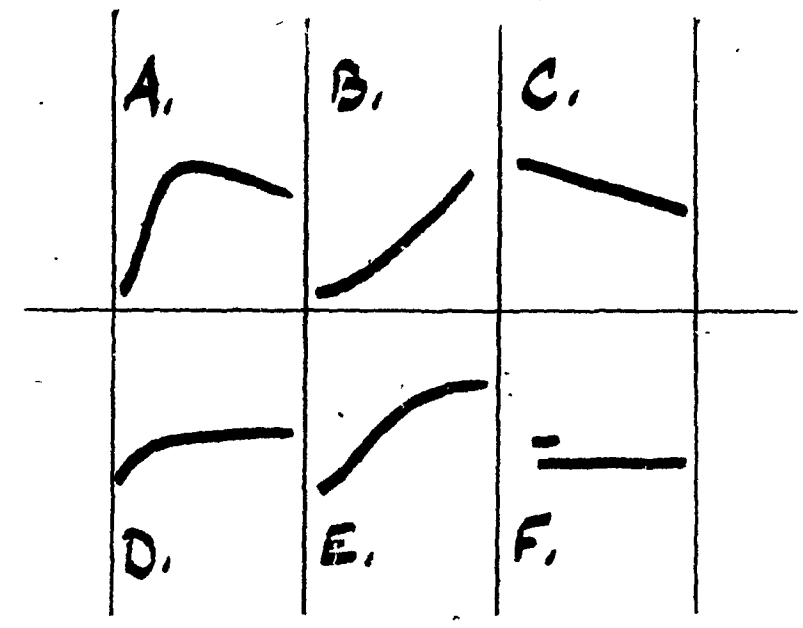
RABBITS: range 50-110, mostly 95.

GUINEAS: range 135.

PIGEONS (PER PAIR): range 1.50-2.70, mostly 2.00.

TOTAL COOPS SOLD: 150.

Question:
Which of the following six lines is most important to today's surviving poultryman?



If you answered F. (the "Bottom Line") you are correct. The other lines (identified below) all play a part, of course, in making up the bottom line. But don't catch yourself bragging to your neighbors about peak production or egg size or feed consumption if your bird isn't the best "bottom line" performer. The DEKALB DK layer, we believe rates with the best on "bottom line" potential. We'd be glad to share with you some of the facts that make true this statement.

(Identification of other lines above: A. Hen-day production, B. Hen-housed production, C. Livability, D. Feed consumption, E. % Large eggs)

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Hay Markets

New Holland Hay

New Holland Sales Stables
Monday, Dec. 14
Report supplied by auction

142 loads.

Alfalfa 120.00-140.00, fair 90.00-120.00, few loads off-color or moldy 80.00-90.00; #1 Mixed 100.00-132.00, fair 90.00-100.00, few poor 70.00-90.00; #1 Timothy 100.00-135.00; few loads fair down to 86.00; Straw 43.00-57.00; New Ear Corn 72.00-75.00, two trailer loads 69.00; Firewood 44.00-75.00 pickup load; Fodder 36.00-40.00.

Good's Hay

Leola, Pa.
Wednesday, Dec. 16
Report supplied by auction

28 loads due to snow.

Mixed 79.00-132.00; Alfalfa 125.00-135.00; Straw 50.00-61.00; one Clover 86.00; Fodder 45.00; Timothy 97.00-105.00.

Frederick Co. Hay

Buckeystown, Md.
Thursday, Dec. 17
Report supplied by auction

Four loads Alfalfa 98.00-140.00; one Alfalfa-Orchardgrass 127.50; two Alfalfa Mixed 101.00-103.00; three Timothy 112.00-118.00; one Timothy-Brome 94.00; four Straw 40.00-56.00; one Clover Hay 100.00; one Firewood 69.00 cord.

Regular sale will be held Thursday, Dec. 24.

Kiester's Hay

Middleburg, Pa.
Wednesday, Dec. 16
Report supplied by auction

8 loads of hay; Alfalfa 19.00-115.00; Mixed 86.00-90.00; Timothy 80.00-90.00.

3 loads Straw 42.00-52.00.

2 pickup loads of wood 30.00-37.00.

Regional Hay

Friday, Dec. 11
Report supplied by PDA

(All hay No. 2 and better, prices paid by the dealers at the farm and per ton.)

Hay and Straw steady to strong.

Alfalfa 95.00-110, few 80.00; Mixed hay 75.00-85, few 65.00; Timothy hay 60.00-85.00; Straw 40.00-50.00; Mulch 30.00-45.00.

Green Dragon Hay

Ephrata, Pa.
Friday, Dec. 11
Report supplied by PDA

94 Loads Hay and 37 Loads Straw.

Alfalfa 80.00-140, mostly 89.00-124.00; Mixed hay 69.00-124, individual 169, mostly 80.00-116.00; Timothy hay 84.00-111, few 70.00; Clover, individual's 86.00 & 98.00; Orchard Grass, few 59.00-81.00; Straw 45.00-65.00; Ear Corn, 7 loads 72.00-76.00; Corn Fodder, individual 45.00; Oats, individual's 1.90 & 2.00 per bu.

New Wilmington Hay

New Wilmington, Pa.
Friday, Dec. 4
Report supplied by PDA

24 Loads Hay and 6 Loads Straw.

Alfalfa, few 92.00-110.00; Mixed hay 75.00-102, individual 140.00; Timothy hay 75.00-89.00, individual 65.00; Clover, individual 80.00; Straw 53.00-70.00; Ear Corn, 2 loads 67.50 & 69.00.

St. Louis Sheep

Thursday, December 17
Report supplied by USDA

Compared last Wednesday, slaughter lambs 2.00-4.00 lower, instances 5.00 lower. Light supply feeder lambs 2.00-3.00 lower. Supply mainly slaughter lambs.

Shorn Slaughter Lambs: Choice and Prime 101-108 lbs. with No. 1-2 pelts 46.00-48.00.

Wooled Slaughter Lambs: Choice and Prime 100-116 lbs. 43.00-46.50; lot 125 lbs. 40.00. Choice 91-117 lbs. 37.00-41.50, bulk 38.00-40.00.

Feeder Lambs: Few lots Choice and Fancy 63-85 lbs. 40.00-41.50. Choice 70-86 lbs. 35.00-40.00.

Livestock Market and Section News

Pa. Grain

Monday, Dec. 14
Report supplied by PDA

Compared with last Monday's market for Southeastern, Central and South Central Pa. Corn uneven, 10 cents higher to 5 cents lower. Wheat uneven, 20 cents lower to 10 cents higher. Barley steady to 10 cents higher; Oats uneven, mostly steady to 5 cents higher; New Ear Corn steady to $5 higher.

Prices paid delivered to dealers dock - (All prices per bushel, except Ear Corn per ton.)

Southeastern Pa.

Corn No. 2-y range 2.50-2.80, average 2.66; Wheat No. 2 range 3.25-3.85, mostly 3.35-3.64, average 3.51; Barley No. 3 range 2.15-2.25, few reported 2.50, average 2.26; Oats No. 2 range 2.00-2.25, average 2.07; Soybeans No. 1 range 5.70-5.85, average 5.77; Grain Sorghum No. 2 range 2.10, average 2.10; New Ear Corn range 60.00-75.00, average 66.25.

Central Pa.

Corn No. 2-y range 2.40-2.65, few reported 2.75, average 2.54; Wheat No. 2 range 3.10-3.50, few reported 3.95, average 3.35; Barley No. 3 range 2.00-2.25, average 2.10; Oats No. 2 range 1.60-2.00, average 1.79; Grain Sorghun No. 2 range 2.20-2.25, average 2.23; Buckwheat range 9.00-10.00, average 9.50; New Ear Corn range 52.00-60.00, average 56.13.

South Central Pa.

Corn No. 2-y range 2.50-2.60, few reported 2.40, average 2.53; Wheat No. 2 range 2.85-3.70, mostly 3.10-3.40, average 3.26; Barley No. 3 range 2.05-2.20, average 2.13; Oats No. 2 range 1.90-2.10, average 1.98; New Ear Corn range 55.00-70.00, average 62.25.

Western Pa.

Corn No. 2-y range 2.35-2.65, mostly 2.50-2.55, average 2.52; Wheat No. 2 range 3.00-3.10, average 3.05; Barley No. 3 range 2.20, average 2.20; Oats No. 2 range 1.80-2.00, average 1.89; Buckwheat range 8.50, average 8.50.

Southeastern, Central & South Central Summary

Corn No. 2-y range 2.45-2.80, average 2.59; Wheat No. 2 range 3.10-3.64, average 3.41; Barley No. 3 range 2.05-2.25, average 2.17; Oats No. 2 range 1.70-2.20, average 1.93; New Ear Corn range 54.00-70.00, average 62.22.

Peoria Cattle

Thursday, December 17
Report supplied by USDA

51 Weekly Cattle Summary compared to last week Slaughter Steers mostly .50-1.00 lower. Heifers steady to .50 lower. Cows steady to 1.00, instances 2.00 higher. Bulls remained steady. The slow movement of boxed beef, a decline in carcass cutout value, lower cme prices and the release of the cattle on feed report all contributed to a slow and cautious live cattle market and lower prices noted for the third consecutive week. Receipts this week about 3200 as compared to 3918 a week ago and 4099 a year ago.

SLAUGHTER STEERS: Choice, few Prime 2-4 1000-1300 lbs. 56.50-58.00 load 1192 lbs. 58.25. Load 1120 lbs. 58.50. Package 1225 lbs. 59.00, few lots and part loads carrying mud 55.50-56.50. Package mostly 4's 52.00. Mixed Good and Choice 2-4 900-1200 lbs. 55.50-57.50. Scattered lots 1150-1450 lbs. Hoslteins 51.00-54.00. Goods 53.00-56.50.

SLAUGHTER HEIFERS: Choice, including Prime 2-4 950-1125 lbs. 55.50-57.50 Majority 56.00-57.00. YG 3-4 53.00-55.00. Package mostly 4's 51.00. Few consignments carrying mud 54.00-55.00. Mixed Good and Choice 2-3 850-1000 lbs. 52.00-56.00, bulk 53.00-55.00. 175 head consignment 800-875 lbs. 51.00 returning to farms good 52.00-55.00.

COWS: Utility and Commercial 1-3 31.00-35.00 high yielding 36.00-37.00. Cutter 29.00-34.00 Canner and Low 25.00-30.00.

BULLS: YG 1-2 1400-1800 lbs. 38.00-42.00. Few 44.00-45.00 1000-1500 lbs. 35.00-38.00.

Valley Livestock

Valley Stockyards
Athens, Pa.
Monday, Dec. 14
Report supplied by auction

Reported receipts of 229 calves, 98 cows, 21 bulls, 31 heifers, 12 steers, 57 hogs, 27 lambs, 8 sheep. Cattle market steady to higher, calf market steady.

Holstein Heifer Calves to 112.50; Veal Calves 75.00-90.00; Bobs, 90-110 lbs. 58.00-98.00; Bobs, 80 and down 45.00-55.00; Grassers & Feeders 35.00-54.00; Lambs 42.00-52.00; Sheep 8.00-20.00; Hogs, 200-250 lbs. 38.00-44.50; Sows 33.00-37.00; Boars 28.00-32.00; Pigs small to 12.00; Heifers 39.00-43.00; Steers 37.00-47.50; Steers, feeder 42.00-53.00; Bulls no good ones 35.00-42.50; Cows, utility 37.00-39.50; Cows, fat 34.00-38.25; Cows, medium 32.00-35.00; Cows, poor or small 27.00-30.00; Horses none; Ponies 35.00-60.00; Goats 12.00-56.00.

BINKLEY & HURST BROS., INC.

CASH & CARRY DISCOUNT DAYS

Continues Through

DECEMBER 24, 1981

See December 12 Issue For Many Pages of BARGAINS GALORE!

(Pages C-21 to C-28)

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THURSDAY, DECEMBER 24
ON THE FARM MONTHLY

BRED GILT SALE

Sale to Start Promptly at 1:00
Every 4 Weeks

Located 18 miles south of Lancaster, Pa., 6 miles south of Quarryville, take Rt. 272 to Little Britain, turn north, follow Little Britain Road to Jackson Road, 2nd farm, OR take Rt. 222, out of Quarryville to Cedar Hill Road to Little Britain Road to Jackson Road. Watch for sale arrows.

50 to 60 Head
Now selling our new hybred gilts representing mostly York & Landrace cross. Bred for easier & less trouble over farrowing.

Qualified Pseudorabies Negative Herd No. #55 Validated Brucellosis Free Herd No #169

Due to farrow 3 days to 4 weeks after sale date. Now everything vaccinated for both Lepto & Erysipelas, wormed and sprayed for lice.

Local Trucker Available.
No Hogs Sold On Commission.

CHRIST A. BEILER
R.D. 2, Quarryville, Pa
JOHN B. STOLTZFUS
R.D. 1, Kirkwood, Pa
Abe Diffenbach, Auctioneer

NEXT SALE DATE JAN. 22

FARM CHEMICALS

Aatrex 9-0	$ 2.13 lb.
4-L	$ 9.35 gal.
80-W	$ 1.79 ½ lb
Bicep	$17.25 gal.
Bladex 4-L	$14.70 gal.
80-W	$ 2.88 lb.
Caliber 90	$ 3.69 lb.
4-L	$16.65 gal.
80-W	$ 3.28 lb.
Counter	$ 1.19 lb.
Furadan	$ .82 lb.
Dual	$40.95 gal.
Lasso	$16.78 gal.
Banvel	$36.61 gal.
Paraquat	$36.59 gal.
Princep	
Malathion	$18.05 gal.
Superacide	$26.75 gal.
Butyrac 200	$13.85 gal.
X77 spreader	$13.88 gal.

Above prices are on Cash with order, unbroken cases and are F.O.B. Latrobe, PA

ANDERSON FERTILIZER

Blend	Jan. 6 $/ton
10-20-20	$176.00
19-19-19	$205.00
8-32-16	$198.00
6-24-24	$182.50
*0-10-40	$156.50
*0-15-30	$156.75

* May require minimum order
BULK DISCOUNT AVAILABLE
Additional Grades Available

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Available for customers buying 100 tons or more in 12 months.

For delivery prices to your farm and any additional info. call toll free.

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412-539-2689
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(ans. serv. late eves. & Sun.)

Not Responsible For Typographical Errors

Livestock market and auction news

Central U.S. Carlot

Wednesday, Dec. 16
Report supplied by USDA

Compared to Tuesday's 4:00 report: Steer and heifer beef steady, good grade steady to 1.00 lower. Demand and trading moderate, supplies moderate. Bulk of sales for immediate shipment. The boxed beef carcass cutout value advanced $.02 to an estimated $97.54 per cwt. Sales reported on 89 loads of steer and heifer beef.

STEER BEEF
62 Loads
FOB Omaha Basis

Choice 3: 600-900 lbs. 93.00 steady.

Choice 4: 600-900 lbs. 85.00 steady.

Good 2-3: 600-900 lbs. 90.00-91.00, late 90.00, 1.00 lower.

Choice 2-3: 600-900 lbs. 88.00 (Hols type).

Good 2-3: 600-900 lbs. 86.00 (Hols type).

FOB Amarillo Basis

Choice 3: 600-700 lbs. 94.00-95.25.

Choice 2: 600-700 lbs. 95.50-97.00.

Choice 4: 600-900 lbs. 86.50 (West).

Good 2-3: 600-900 lbs. 90.00.

HEIFER BEEF
27 Loads
FOB Omaha Basis

Choice 3: 550-700 lbs. 91.00-92.00, late 92.00 steady.

Choice 3: 500-550 lbs. 91.00.

Choice 3: 400-500 lbs. 90.00.

Choice 4: 500-700 lbs. 85.00 steady.

Good 2-3: 550-700 lbs. 87.00-88.00 steady-1.00 lower.

FOB Amarillo Basis

Choice 4: 500-700 lbs. 86.50 (West).

Good 2-3: 550-700 lbs. 88.00.

Cow beef 2.00-3.00 higher. Demand moderate for light supplies.

COW BEEF
7 Loads
FOB Amarillo Basis

Brkg Utlty 3-4: 450/up lbs. 67.50 (West).

Bng Utlty 2-3: 400/up lbs. 70.00 (Midwest) 2.00-3.00 hghr.

Cnr. & Cutter 1-2: 350/up lbs. 71.50-74.50, (Midwest), late 74.50, 2.50 higher.

BULL BEEF
1 Load
FOB Omaha Basis

Bull 1-2: 500/up lbs. 79.50.

PRIMAL BEEF CUTS
9 Loads
FOB Omaha Basis

HINDS (H): 120-170 lbs. 101.00.

FORES: 130-210 lbs. 84.00.

BONELESS PROCESSING BEEF/BEEF TRIMMINGS
13 Loads
FOB Omaha Basis

90% chem lean, fresh 106.00.

85% chem lean, fresh 97.00.

50% chem lean, fresh 44.00-46.50.

50% chem lean, frozen 48.00.

Compared to Tuesday's 4:00 report: Fresh pork loins steady-2.50 higher. Picnics 4-8 lbs. not fully established, 8/up lbs. steady. Boston butts 4-8 lbs. 2.50 higher. Skinned hams 2.00-4.00 higher. Sdls bellies 1.50-2.00 lower. Frozen boneless picnics mostly steady, instances 2.00 higher. Skinned jowls 1.00-1.50 lower. Trading moderate. Demand moderate, except hams for immediate shipment demand good. Sales reported on 65 loads plus 26 loads of trimmings.

FRESH PORK CUTS

LOINS: 14/dn lbs. 90.50 frozen, export; 14-17 lbs. 81.00-82.00, 1.00-2.50 higher; 14-17 lbs. 85.00 next week ship; 14-17 lbs. 84.00-84.50 clear channel; 17-22 lbs. 77.50 steady; 17-22 lbs. 79.75 clear channel.

PICNICS: 4-8 lbs. 40.00-44.00, not fully estab.; 8/up lbs. 40.00 steady.

BOSTON BUTTS: 4-8 lbs. 65.25 2.50 higher; 4-8 lbs. 67.00 next weeks ship.

SKINNED HAMS: 14-17 lbs. 84.00; 17-20 lbs. 75.00-80.00, LALE 79.00-80.00, 2.00-4.00 higher than late Tuesday; 20-26 lbs. 75.00-79.00, late 78.00-79.00, 3.00-4.00 higher; 20-26 lbs. 72.00 frozen.

BELLIES, SDLS: 16-18 lbs. 41.00-43.00, 1.50-2.00 lower; 18-20 lbs. 38.00, 1.50 lower; 20-25 lbs. 35.50.

BNLS CUT BUTT: 1.5-3 lbs. 11.30 frozen.

1.50-3 lbs. 114.00-114.50 frozen.

PORK TRIMMINGS
BONELESS PROCESSING PORK (Chemical Lean)

42% lean trimmings frozen 30.00-32.00.

72% lean trimmings frozen 60.00.

72% bnls picnics fresh 62.50-63.00.

72% bnls picnics frozen 64.00-66.00, mostly steady, bulk 64.00, inst. 2.00 hghr.

Skinned Jowls frozen 29.00, 1.00-1.50 lwr.

Middleburg Auction

Middleburg, Pa.
Tuesday, December 15
Report supplied by PDA

CATTLE 163. Compared with last Tuesday's market, slaughter cows 50 cents to $2.50 higher. Few Choice No. 2-4 900-1350 lbs. slaughter steers 57.85-61.00, Good 55.00-58.50, few Standard 45.00-54.35. Few Good slaughter heifers 49.50-53.10. Utility & Commercial slaughter cows 36.50-39.85, few to 42.50, Cutters 33.25-37.00, few Canner & Low Cutter 32.00-33.10. Yield Grade #1 1100-1700 lbs. slaughter bulls 42.75-50.25. Few Medium Frame #1 500-750 lbs. feeder steers & bulls 45.00-52.50.

CALVES 133. Choice vealers 75.00-85.00, few Good 59.00-69.00, Standard & Good 70-100 lbs. 45.00-55.00, few Utility 60-80 lbs. 35.00-43.00. Farm calves, holstein bulls 85-125 lbs. 55.00-95.00, mostly 65.00-85.00; holstein heifers 85-120 lbs. 55.00-117.50, mostly 80.00-95.00. (MONDAY, DECEMBER 14, 1981).

HOGS 340. Barrows & gilts $1 higher. US No. 1-2 200-235 lbs. barrows & gilts 45.00-46.35, few to 47.25, No 1-3 190-250 lbs. 44.00-45.00, No. 2-3 190-300 lbs. 40.00-44.00. US No. 1-3 300-550 lbs. sows 33.00-36.00, No. 2-3 300-650 lbs. 30.00-33.00. Boars 30.00-31.00. (TUESDAY 75). US No. 1-3 230-255 lbs. barrows & gilts 42.25-43.10, one lot No. 2-3 240 lbs. 42.00.

FEEDER PIGS 98. US No. 1-3 35-60 lbs. feeder pigs 29.00-36.00 per head.

SHEEP 2. One lot Choice 100 lbs. wooled slaughter lambs at 51.00.

Four States Livestock

Hagerstown, Md.
Wednesday, Dec. 9
Report supplied by auction

SLAUGHTER: Fed Steers $1.00 lower. Low Choice to 57.00; Good 53.00-56.00; Medium 52.00 Down. Heifers Choice 49.00-50.00; Good 45.00-48.00; Medium 44.00 Down. Cows $2.00 lower. High Yield 40.00-42.50; Average 37.00-39.00; Big Middle 33.00-36.00; Fatty Herf. 30.00-33.00; Shelly 34.00 Down. Fat Bulls $1.00 lower. Good 47.00-49.50; Medium 42.00-46.00. Veal Calves $2.00 higher. Choice 90.00-94.00; Good 80.00-89.00; Medium 70.00-79.00; Farm Hfrs. to 62.00; Farm Bulls to 60.00; Light & Weak 52.00 Down. Lambs Choice none; Good 35.00-38.25; Medium 34.00 Down.

STOCKER: Steers 300-500 lbs. Steady prices. Choice 57.00-60.00; Good 52.00-56.00; Medium 46.00-51.00; Culls 45.00 Down. Steers 600-850 lbs. Choice 54.00-57.00; Good 49.00-53.00; Medium 48.00 Down. Heifers (All Weights) Choice 49.00-51.50; Good 44.00-48.00; Medium 43.00 Down. Bulls Choice 51.00-55.00; Good 45.00-50.00; Medium 44.00 Down. Dairy Cows to 885.00. Springing Heifers to 1050.00. Pigs, Hd. Steady. 20-30 lbs. 12.00-24.00; 40-60 lbs. 25.00-33.00. Shoats by Lb. to 51.00. Slaughter Hogs $3.00 under last wk. 210-230 lbs. 39.25-40.50; 240-260 lbs. 40.00-41.00; 270-310 lbs. 42.00-45.00. Sows 350-575 lbs. 36.00-43.00.

Leesport Auction

Leesport, Pa.
Wednesday, Dec. 9
Report supplied by auction

CATTLE 316. Compared with last Wednesday's market, slaughter steers $2.50 to $4.50 lower. Slaughter cows $2 to $4 lower. High Choice & Prime slaughter steers 58.00-61.50, Choice 56.00-59.00, Good 52.00-55.00, Standard 45.00-50.00. Good slaughter heifers 52.00-57.50, Utility & Commercial slaughter cows 35.50-39.00, Cutters 34.00-36.00, Canner & Low Cutter 28.00-34.00. Yield Grade #1 slaughter bulls 47.00-54.00, couple to 57.00.

CALVES 125. Vealers $5 to $8 lower. Choice vealers 72.00-90.00, Good 65.00-75.00, Standard & Good 110-130 lbs. 50.00-70.00, 90-110 lbs. 60.00-68.00, 65-90 lbs. 30.00-55.00. Farm calves, holstein bulls 100-120 lbs. 60.00-75.00; holstein heifers 100-120 lbs. 85.00-105.00.

HOGS 340. Barrows & gilts $3 to $4 lower. US No. 1-2 barrows & gilts 41.75-43.25, No. 1-3 40.50-41.75. US No. 1-3 sows 38.00-40.50.

FEEDER PIGS 193. US No. 1-3 20-35 lbs. feeder pigs 65.00-90.00 cwt., No. 1-3 35-50 lbs. 70.00-80.00 cwt.

SHEEP 51. Wooled slaughter lambs $2 to $3 higher. Choice wooled slaughter lambs 52.50-58.00, Good 42.00-48.00. Slaughter ewes 20.00-28.00.

Joliet Cattle

Thursday, December 17
Report supplied by USDA

CATTLE: Friday through Wednesday's salable receipts 4,300; 5 days last week 5,097; same period a year ago 5,830. Trading slow on Monday; moderately active on Wednesday. Slaughter steers ended the week mostly steady, instances 50 lower compared with Wednesday of last week. Slaughter heifers closed the week mostly steady. Cows closed the week steady to 1.00 higher.

SLAUGHTER STEERS: Mixed high Choice and Prime 3-4 1150-1350# 58.50-59.50 Monday; 59.00-59.50 Wednesday; 3-4, few 5, 1150-1350# 58.00-58.50. Choice 2-4 1050-1300# 57.50-58.50 Monday; 57.50-59.00, load 59.50, mostly 58.00-59.00 Wednesday. Mixed Good and Choice 2-3 1000-1200# 56.00-57.00 Monday; 57.00-58.00 Wednesday. Choice 2-3 1300-1500# holsteins 52.75-54.00 Monday. Standard and Good 2 holsteins 1150-1400# 50.00-52.75 Monday.

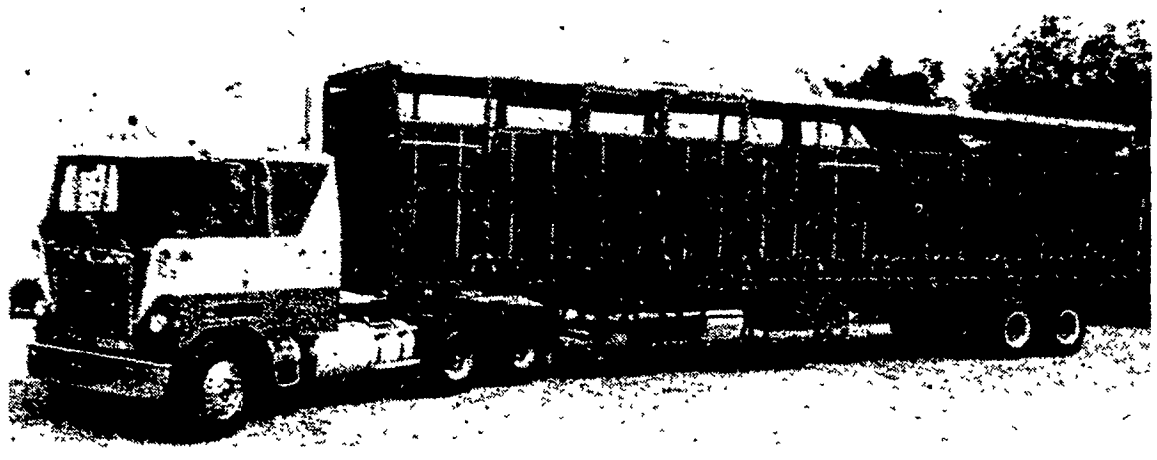
SLAUGHTER HEIFERS: Choice, few Prime, 900-1100# 57.75-58.00, load Wednesday 58.25. Choice 2-4 900-1050# 56.50-57.50. Mixed Good and Choice 2-3 800-1000# 55.00-56.50.

COWS: Cutter and Utility, few Comercial, 1-3 30.00-34.00, few Wednesday 35.00.

For quotations of next week's prices
call collect 215-488-7617
After 2:00 P.M. Wednesday

LESS LABOR

VERY SANITARY



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CLOSED WEDNESDAYS

THE OLD FARMER'S ALMANAC

DEC. 21-27, 1981

Merry Christmas to all!

Farewell to fall, winter begins Dec. 21 (Mon.) at 5:51 P M. E.S.T. . . . Darryl F. Zanuck died Dec 22, 1979 . . . New moon Dec. 26 (Sat.) . . Average length of days for the week, 9 hours, 5 minutes . . . FDR appointed Eisenhower Supreme Allied Commander in Europe, Dec 24, 1943 . . *The great man is he who does not lose his child's heart.*

Ask the Old Farmer: For several years we have been bothered with "carpenter bees" under a face board of our house. We have tried spraying with a hornet spray, gasoline, a termite spray, and a few other remedies, but to no avail Can you help us get rid of these pests? E.W., Mt. Holly, NJ

Try spraying them with a hair spray, which will stiffen their wings and make them unable to fly

Home Hints: Use a net onion bag to store the baby's bath toys Hang on a hook on the back of the bathroom door to air-dry

OLD FARMER'S WEATHER FORECAST

New England: Cloudy and cold, with snow flurries, all week

Greater New York-New Jersey: Freezing rain, snow in mountains until weekend, then cold temperatures and flurries.

Middle Atlantic Coastal: Week begins with light snow north and west, becoming cold, weekend brings rain, sleet and snow.

Piedmont & Southeast Coastal: Beginning of week, cloudy and cold; cold and rainy, with snow in mountains, through weekend

Florida: Week brings clear warm days and cold nights

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Livestock market and auction news

Shenandoah Valley Livestock

Harrisonburg, Va.
Saturday, Dec. 12
Report supplied by auction

STOCKER, FEEDER, AND SLAUGHTER CATTLE: Good Light Steer Calves 55.00-59.75; Medium 50.00-54.75; Plain 49.00 and down; Good Heavy Steers 52.00-57.70; Medium 47.00-51.75; Plain 46.00 and down; Holstein Steers 35.00-44.25; Good Light Heifer Calves 41.00-46.50; Medium 36.00-40.75; Plain 35.00 and down; Good Heavy Heifers 40.00-45.50; Medium 35.00-39.75; Plain 34.00 and down; Slaughter Cows 34.00-39.00; Utilities 29.00-33.75; Cutters & Canners 28.00 and down; Milk & Stock Cows Not enough to quote; Stock Bulls 49.00 and down; Slaughter Bulls 36.75-43.00.

CALVES: Veal Calves 74.00 and down; Baby Calves 60.00 and down.

SHEEP & LAMBS: Choice Blue O 48.50; Good Red O 43.75; Feeder Lambs 41.00-43.00; Slaughter Ewes 13.25 and down; Stock Ewes 42.00 and down.

HOGS: Top 41.50; Heavy 49.00; Sows 34.50 and down; Boars 27.50; Butcher Hogs 46.00 and down.

Omaha Cattle

Thursday, December 17
Report supplied by USDA

WEEKLY CATTLE. Through midweek, steers 1.00-2.00 lower, heifers weak to 50 cents lower. Cows 5.00-6.00 higher, bulls steady to firm. Steers and heifers trended lower Monday on fairly liberal receipts recovered some Tuesday but pressured down again Wednesday's receipts of 3500 head despite snow-storm conditions. Heifers held up well in relation to steers as heifers made up smaller percentage of receipts. Cow beef turned upward following downtrends last week. Slaughter steers constituted 51 pct. of the week's receipts; heifers 34 pct.; cows 9 pct.; feeders 4 pct.

STEERS: At midweek, five loads Choice 2-3 1125-1375 lbs. 58.65-58.75. Choice, including prime 2-4 1050-1300 lbs. 57.50-58.50, some late 57.00-58.00, load mostly Choice 3 muddy 56.50. Few Mixed Good and Choice 2-3 57.00-58.00, few Good 55.00-57.00. Few lots Good and Choice 2-3 Holsteins during week 53.00-54.00, several loads Good 52.00-52.25, few Standard and mostly Good 5.50-52.00.

HEIFERS. Load Choice 2-3 1075 lbs. 58.00, load Choice and Prime 3 930 lbs. 57.75. Choice including Prime 2-4 900-1100 lbs. 56.00-57.50, load 57.60, bulk 56.50-57.50, some 3-4 54.00-56.50. Mixed Good and Choice 2-3 55.50-56.50; Good 53.00-55.00.

Average of detailed quotations for Choice 900-1100 lb. steers 58.30; 1100-1300 lbs. 58.20. Average cost steers 57.87, average weight 1168 lbs. compared 59.14 and 1167 lbs. a week ago. Average cost heifers 56.65, average wieght 1018 lbs. compared 57.17 and 1021 lbs. a week ago.

COWS. High cutter, Utility and Commercial 1-3 36.50-38.50, few 39.00-40.00. Cutter 33.00-36.50, Canner and Low Cutter 30.00-33.00.

BULLS. 1-2 1100-1800 lbs. 40.00-44.00, few high dressing 1 46.00, low dressing or yield grade 2 38.00-40.00.

East Coast Carlot

Wednesday, Dec. 16
Report supplied by USDA

Compared to Tuesday's close: Prime special fed veal steady. Good and Choice boning veal 1.00 to 4.00 lower; inshipped steady. Lamb market lightly tested as buyers adopt a wait and see attitude in response to light demand for heavy supplies. Boneless beef not fully established. Undertone firm.

VEAL CARCASS
Prime (Special Fed)
HIDE-ON
285 Head

180-240 lbs. 165.00-170.00, steady, few 172.00.

BONING TYPE
HIDE-ON
Good & Choice

Northeastern Suppliers: 65-75 lbs. 880.00-81.00, all 1.00 to 4.00 lower; 55-64 lbs. 78.00-79.00; 45-54 lbs. 76.00-77.00; 35-44 lbs. 74.00-75.00; 34 lbs. down 72.00-73.00.

Inshipped: 71-80 lbs. 84.00-86.00, all steady; 61-70 lbs. 82.00-84.00; 51-60 lbs. 80.00-82.00; 41-50 lbs. 78.00-80.00; 30-40 lbs. 76.00-78.00.

LAMB CARCASS
Choice & Prime 3-4
1½ Loads

55 lbs. dwn 108.00; part loads; 60 lbs. down 105.00, part load.

BONELESS BEEF
2 Loads

90 pct chem lean, fresh 109.00.
85 pct chem lean, fresh 102.00.

CURED AND PROCESSED MEATS
6 Loads

Semi-Boneless Hams: 14-17 lbs. 113.00 weak.

No. 1 Sliced Bacon, Vacuum Pack 1 lb. pkg. 106.00 steady.

Franks, 70 beef, 30 pork, 1 lb. pack 82.00 steady.

Eighty-four Auction

Eighty-four, Pa.
Monday, Dec. 14
Report supplied by PDA

CATTLE 262. Compared with last Monday's market, slaughter steers $1 to mostly $2 lower. Slaughter cows steady to weak. One Choice slaughter steer at 57.00, few Good 51.00-55.00, Standard 46.00-50.00, few Utility 40.00-44.00. One Choice slaughter heifer at 54.25, few Good 49.00-51.00, Utility 40.00-43.00. Utility & Commercial slaughter cows 35.00-37.75, Cutters 33.00-36.00, Canner & Low Cutter 24.00-33.50, Shells down to 17.00. Yield Grade #1 1100-1500 lbs. slaughter bulls 44.00-47.00; one yield grade #2 1300 lbs. at 41.75. Few Medium Frame #1 450-700 lbs. feeder steers 48.00-49.00, Medium #2 550-700 lbs. 45.50-47.75; Medium Frame #1 300-700 lbs. feeder heifers 40.00-43.25; Medium Frame #1 400-600 lbs. feeder bulls 45.00-47.75.

CALVES 358. Vealers grading Good & Choice $5 to $10 lower, Standard & Good $4 to $5 lower. Choice vealers 85.00-91.00, Good 63.00-75.00, Standard & Good 110-130 lbs. 51.00-62.00, 90-110 lbs. 46.00-53.00, 60-85 lbs. 39.00-47.00, few Utility 50-80 lbs. 32.00-39.00. Farm calves, holstein bulls 90-125 lbs. 70.00-85.00; Slaughter calves, grading Good & Choice 250-350 lbs. 50.00-63.00.

HOGS 130. Barrows & gitls 75 cents to mostly $1 lower. US No. 1-3 200-260 lbs. barrows & gilts 41.00-42.75, few to 44.50, No. 1-3 100-170 lbs. 35.00-39.00. US No. 1-3 400-600 lbs. sows 31.50-37.00, one No. 2-3 670 lbs. 29.00. Boars 20.00-30.75.

FEEDER PIGS 14. Few Utility 25-40 lbs. feeder pigs 9.00-17.00 per head.

SHEEP 217. Wooled slaughter lambs $3 to $4 lower. Choice 75-90 lbs. wooled slaughter lambs 49.00-51.00, shorn 80-100 lbs. 48.50-50.25, Good 75-90 lbs. 45.00-47.00; Good 65-70 lbs. feeders 43.00-45.00. Slaughter sheep 10.00-20.00.

GOATS 5. 13.00 per head.

Be cautious adding 'N'

ATLANTA, Ga. — Nitrogen availability under no-till systems should be judged with caution if systems have been in place for short time periods, a University of Nebraska professor of agronomy reports.

No-till systems maintain a protective cover on the soil surface year round to improve water infiltration and decrease erosion potential.

Research during an initial five-year period at the High Plains Ag Lab near Sidney, Neb., indicated that nitrate-nitrogen was 25 to 35 percent less under no-till conditions compared to conventional systems.

However, after 10 years under no-till, nitrate-nitrogen levels are now equivalent to those in conventional systems. These new findings are important, Peterson said, because they show that no-till does not necessarily have a higher nitrogen fertilizer requirement.

In addition, findings suggest that it is not wise to draw definite conclusions concerning nitrogen behavior in a drastically different system such as no-till, until the system has been in place at least eight to 10 years.

Holiday Schedule For
NEW HOLLAND SALES STABLE, INC.
New Holland, PA
Monday, Dec. 21 - Sales as usual
Wednesday, Dec. 23 - Sales as usual
Thursday, Dec. 24 - No Sales
Monday, Dec. 28 - Sales as usual
Wednesday, Dec. 30 - Sales as usual
Thursday, Dec. 31 - Bull, steer & cow sale w/no supper hour break. NO SHEEP, CALF OR GOAT SALE AT 3:30

NEW HOLLAND SALES STABLES, Inc.
12 Miles East of Lancaster
on Route 23, New Holland, Penna.
WEEKLY FEEDER PIG SALE EVERY WEDNESDAY
Sale to Start at 1:30 P.M.
We Will Receive Your Pigs Anytime From 7 A.M. Wed. Morning
State Graded Until 12 Noon.
All pigs inspected by State Approved Veterinarian.
State tags available at our office for you to tag pigs at home to save 25 cents tagging charge.
Tags delivered if you call 717-354-4341 our office in advance.
Calf Sale To Be Held
Every Thursday At 3:30 P.M.
NORMAN KOLB 717-397-5538
ABE DIFFENBACH 717-393-4464

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2213 Leabrook Road, Lancaster, PA 17601
Ph: 717-898-8354 or 569-6576

Livestock market and auction news

New Wilmington Auction

New Wilmington, Pa.
Monday, Dec. 14
Report supplied by PDA

CATTLE 336. Compared with last Monday's market, slaughter cows $1 to $1.50 lower. Good slaughter steers 51.25-55.00, Standard 42.00-50.00, few Utility 40.00-41.25. Good slaughter heifers 45.00-52.00, one at 55.00, Standard 36.50-44.75. Utility & Commercial slaughter cows 35.00-39.00, few to 40.00, Commercial No. 4-5 30.00-35.00, Cutters 32.50-37.00, Canner & Low Cutter 25.00-33.00, Shells down to 15.00. Yield Grade #1 and 2 855-1810 lbs. slaughter bulls 41.00-46.75. Medium & Large Frame #1 310-480 lbs. feeder steers 37.00-46.50, few to 51.50; Medium & Large Frame #1 300-735 lbs. feeder heifers 28.00-40.00, few to 46.50.

CALVES 267. Vealers steady to strong. Couple Prime vealers 107.00 and 109.00, Choice 92.50-102.50, Good 75.00-95.00, Standard & Good 90-125 lbs. 40.00-56.00, 65-85 lbs. 30.00-42.50, Utility 50-80 lbs. 20.00-24.00. Farm calves, holstein bulls 95-135 lbs. 58.00-72.00; holstein heifers 85-115 lbs. 52.50-75.00.

HOGS 521. Barrows & gilts $1 to $1.50 lower. US No. 1-2 210-245 lbs. barrows & gilts 41.25-42.10, No. 1-3 200-255 lbs. 40.00-41.25, few No. 2-3 220-270 lbs. 37.50-40.25. Sows fully $5 lower. US No. 1-3 285-735 lbs. sows 33.00-38.00, No. 2-3 300-560 lbs. 30.00-33.00. Boars 20.00-32.50.

FEEDER PIGS 13. US No. 1-3 35-50 lbs. feeder pigs 25.00-31.00 per head.

SHEEP 122. Choice 75-150 lbs. wooled slaughter lambs 45.00-55.00, Good 50-90 lbs. 38.00-48.00, one lot Utility 60 lbs. 34.00. Slaughter ewes 15.00-23.00.

Lebanon Valley Auction

Fredericksburg, Pa.
Tuesday, December 15
Report supplied by PDA

CATTLE 150. Few Choice slaughter steers 59.50-60.60, couple Good 56.25 and 56.50, Standard 50.00-55.00, few Good & Choice holsteins 54.75-55.75, few Utility 39.25-40.50. One Choice slaughter heifer at 56.25. Utility & Commercial slaughter cows 38.50-40.75, few to 42.85, Cutters 34.75-38.75, few to 40.85, Canner & Low Cutter 31.75-34.75. Few Utility & Standard slaughter bullocks 50.00-52.75. One Yield Grade #1 slaughter bulls 2015 lbs. at 51.75.

CALVES 240. Couple Prime 235 and 320 lbs. vealers 71.00 and 78.00, few Choice 86.00-97.00, few Good 60.00-88.00, Standard & Good 90-130 lbs. 55.00-58.00, 65-90 lbs. 52.00-55.00, few Utility 50-85 lbs. 45.00-51.00. Farm calves active, holstein bulls 80-130 lbs. 66.00-100.00, mostly 83.00-96.00; holstein heifers 80-120 lbs. 66.00-102.00, few to 137.00.

HOGS 115. US No. 1-2 200-235 lbs. barrows & gilts 42.25-42.85, No. 1-3 190-245 lbs. 41.75-42.10, few No. 2-3 215-285 lbs. 35.00-38.00, No. 1-3 145-180 lbs. 34.00-39.50. US No. 1-3 300-500 lbs. sows 33.00-35.75, few No. 2-3 300-400 lbs. 30.75-31.00. Few Boars 30.00-31.50.

FEEDER PIGS 8. Lot US No. 1-3 25 lbs. feeder pigs 34.00 cwt.

SHEEP 4. One Good 55 lbs. wooled slaughter lamb at 49.00. Slaughter (couple) yearlings 32.00 and 33.00.

Morrison Cove Livestock Auction

Martinsburg, Pa.
Monday, December 14
Report supplied by auction

CATTLE 87: Standard slaughter steers 47.75-50.25, Utility 44.50-47.25. Standard slaughter heifers 46.00-47.50, Utility 43.00-45.50. Utility & Commercial slaughter cows 39.75-41.00, Cutters 37.50-33.50-36.50, Canner & Low Cutter 33.50-36.50, Shells down to 29.75. Standard slaughter bullocks 52.00-53.00, Utility 48.50-51.00. Yield grade #1 slaughter bulls 50.00-52.50; yield grade #2 46.00-47.25. Good feeder heifers 46.00-48.00, Medium 43.00-45.50.

CALVES 215: Prime vealers 85.50-92.50, Choice 81.50-88.00, Good 75.00-81.50, Standard & Good 110-130 lbs. 68.00-79.00, 90-110 lbs. 52.00-58.50, 70-90 lbs. 47.00-53.00. Farm calves, holstein bulls 90-120 lbs. 75.00-97.00; holstein heifers 90-120 lbs. 97.50-130.00.

HOGS 295: US No. 1-2 barrows & gilts 43.75-45.10, No. 1-3 43.75-44.25, No. 2-3 42.50-43.50, No. 2-4 41.75-42.25, No. 1-3 41.75-43.25. US No. 1-3 sows 41.00-42.00, No. 2-3 39.75-40.75.

FEEDER PIGS 13: US No. 1-3 25-40 lbs. feeder pigs 15.00-21.00 per head.

SHEEP 21: Choice wooled slaughter lambs 48.00-50.00, Good 42.00-46.00. Slaughter ewes 15.00-17.00.

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Off the Sounding Board

By Sheila Miller, Editor

Comments on conservation

Did you ever want to give the federal government a piece of your mind about the way they are running things?

Until January 15, 1982, every farmer and person living in the U.S. will have the chance to tell one branch of the federal government just what they think.

As part of the Soil and Water Resources Conservation Act of 1977 the United States Department of Agriculture has been listening to public comments on its conservation programs since 1978. Now, for the fourth time, USDA is asking for feedback from the people it is intended to serve.

To help people respond to the appeal for opinion-poll support for its program direction, the USDA has conveniently drawn up a questionaire on which a flick of a pen will check an individual's attitude on 20 issues, with the options of 'strong support' all the way down to 'strong opposition.'

We think its awfully considerate of the bureaucrats to come up with these guidelines to issues they say have been based on previous opinion surveys Unfortunately, the bureaucratic language seems to filter down even to the simplest questionnaire.

Take, for example, Question 18 which reads "Minimizing conflicts among features of USDA farm programs that limit achievement of conservation objectives." How can anyone feel strongly one way or another on this sort of question? What type of conflicts are they talking about, which farm programs, and whose conservation objectives?

Most of the other questions on Secretary John Block's list of preferred Soil and Water Resource Conservation Program issues are decipherable, but merit second and sometimes third readings.

We should all agree that there's a strong need to establish a clear national priority list of conservation problems (Question 1), but who's going to write them down — the bureaucrat who drew up this questionnnaire? That would throw out any possibility of clearness.

And the idea of strengthening the partnerships that exist between landowners and all levels of government is idealistically a grand idea (Question 2). But how can this 'dream' come true when even within the ranks of the current administration, a sense of unity seems to be lacking.

One cleverly phrased question might throw some people off track, but not many. The USDA asks whether the public would be in favor of "providing federal matching block grants to states by reducing federal conservation programs." (Question 3) At first glance this looks like a bonus to individual states — the federal government agrees to "provide" matching funds. But a closer look tells us these funds will mean a much smaller federal share, with the states having to pick up half of the tab that USDA used to pay. And what would happen to the conservation program in a state that simply couldn't come up with the money. Their conservation problems would be addressed with 'short change.'

The questionnaire suggests coordination at the local level of USDA agencies, conservation districts, Extension committees, and others (Question 4) This we agree would be a terrific change for the better so that there is a common goal and effort at the grassroot's level of the conservation problem — down on the farm.

But, the "Preferred Program" takes this one step further on the state and national level and gives birth to new branches of bureaucracy.

Unless the public shows strong opposition to Questions 6-8, USDA will work toward establishing a new State Conservation Coordinating Board that will be politically appointed by each state's governor. Pennsylvania already has its Bureau of Soil and Water Conservation within the Department of Environmental Resources and this agency works with local conservation districts and the USDA agencies in overall planning of conservation programs Who needs an identical twin?

The USDA also proposes a National Conservation Board. Didn't they ever hear that too many cooks spoiled the soup. There's already too much talk and not enough action in solving the erosion and flooding crisis taking place on U S land.

Ideas of emphasizing cost-efficient conservation practices, (Question 11) are a must in today's weak economy — nobody has money to burn. But targeting more USDA funds and personnel to areas where erosion or other conditions threaten the production capacity of soil and water resources (Question 10) could mean problems in little (but mighty) states like Pennsylvania would be deemed insignificant in relation to problems being experienced by states like Texas, California, and Montanna.

And one of the last proposals the USDA is inviting people to comment on is the controversial idea of cross-compliance — "requiring land owners to have a conservation plan in order to be eligible for Farmers Home Administration loans. (Question 16) What if the farmer's loan is for livestock or crops on leased land?

It's time USDA got down to the ground level of their conservation program and put its personnel and technical resources where it counts — out on the farm, working with farmers in solving erosion and surface water problems. Research and education are an important part of the progress our nation can make it saving its valuable soil, but all the USDA scientists and information specialists in the nation won't have any jobs if farmers aren't 'buying' what they're selling.

In order to feed the world as cheaply as our political leaders prefer, farmers need the government's and taxpayers financial support in their conservation efforts. It's no time for the federal government to call for more programs and practices for half the funds.

But it is time for farmers everywhere to speak up, either by using the questionnaire or preferably writing a personal letter filled from top to bottom with ideas on what would make USDA's conservation program earn its keep. It only takes your time and concern, and of course that 20-cent stamp.

OUR READERS WRITE, AND OTHER OPINIONS

Qualified support

The Berks County Conservation District has given qualified support to the U.S. Department of Agriculture's new proposed conservation program.

The board of directors feels the program is a move in the right direction. But exception is being taken with several features of the new program.

The board is opposing the establishment of local and state coordinating committees. This will mean the creation of a new system and will duplicate the present State Soil and Water Conservation Commission as well as all the local county conservation districts.

The provision of the new proposed program, which provides

(Turn to Page A12)

THE BIBLE SPEAKS

BY LAWRENCE W. ALTHOUSE

THE MANGER SIGN

December 20, 1981

Background Scripture:
Luke 2:1-20.
Devotional Reading:
Philippians 1:3-11.

If the cross is the symbol of Christ's passion and resurrection, the manger is surely the symbol of his birth. According to Luke's Gospel, the symbolism has a divine origin, for the angel that appeared to the shepherds in the fields outside Bethlehem said very specifically: "And this will be a sign for you: you will find a babe wrapped in swaddling cloths and lying in a manger" (2: 12). It was God himself who placed his manger sign upon the earth.

Saviour, Christ, Lord!

What is the meaning of that sign for us?

For one answer to that question, imagine in your mind's eye an old-fashioned balance scale. On the right-hand side of the scale, imagine in large, bold letters these three words: **SAVIOUR, CHRIST, LORD.** Then on the left-hand side imagine the **manger sign.** Most of us will imagine that the scale is greatly out of balance, the right side with Jesus' three lofty titles — **SAVIOUR, CHRIST, LORD** — being so much weightier than the left side with its simple manger.

In other words, there is a tremendous paradoxical irony in Luke's story of Jesus' birth. On the one hand the shepherds in the field are told that God has finally answered Israel's prayers and given them one who is **SAVIOUR, CHRIST,** and **LORD,** all in one! What a powerful, earthshaking announcement it was.

Yet, at the same time, the God-given sign of this great event was almost unbelievable: A manger, not a crib for a newborn child — let alone this newborn child - but a feed-trough for common animals! What could be more inappropriate, even incongruous? The one who is God's SAVIOUR, CHRIST and LORD born in a feed-trough!

Yet more than just the crude manger itself is what it symbolizes. For the manger stands for the most humble of cir-

(Turn to Page A12)

NOW IS THE TIME

By Jay Irwin

Lancaster County Agriculture Agent
Phone 717-394-6851

To Be Aware of Fertilizer Value of Manure

The 1982 Agronomy Guide lists, on page 7, the real fertilizer value in our livestock and poultry manure. As fertilizer costs increase, we need to make every effort to use and preserve these manure fertilizer elements. On the basis of the fertilizer content at current fertilizer prices, cattle manure has $3.00 worth of fertilizer elements per ton, swine manure contains about $5.00 worth and poultry manure contains about $20.00 worth of fertilizer elements. This will vary depending on the moisture and bedding content. In addition, all types of manure add organic matter to the soil which is needed on most farms. For best results manure should be either incorporated into the topsoil or stored in a water-tight pit until it can be spread and mixed with the soil.

To Be Alert for LT in Poultry

Poultry farmers should be on the look-out — LT (laryngotracheitis) is on the prowl again. Several cases have been confirmed. Let's not be lulled to sleep with the fact that LT has been held in check for awhile. We are into the season with less sunshine and more opportunity for the disease to spread.

Health security is most important. Insist that salesmen, feed deliverymen, egg customers, and pick-up people stay out of the poultry house. It's also a good idea to provide OUTSIDE receptacles for feed slips, invoices and other

(Turn to Page A12)

HAY HAWS

"You can't be taking a poll! Elections are over. No politician cares now what farmers think."

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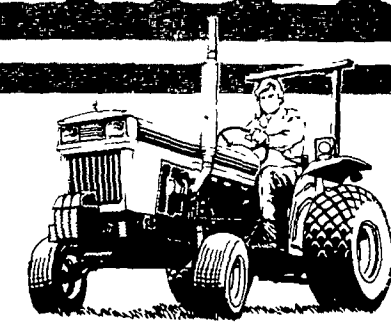

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Now is the Time

(Continued from Page A10)

messages. Know your pullet source and their vaccination program. Another thing, do not visit other poultry farms and do not allow your visitors in the poultry house — padlock the door if necessary. Let's do all we can to keep LT in check.

To Protect Trees and Shrubs

Your trees and shrubs can get through the winter, but they can do it better with a little help from you. Some winter protection might help save your valued trees and shrubs.

Thin-barked trees can be damaged by sunscald in the winter. That's why it's a good idea to wrap the trunks of such trees as sugar maple, tulip tree, American linden, flowering dogwood and plum. You can wrap them now, but be sure to take the wrapping off late next spring. You can use commercial tree wrapping, starting at the ground level and working up the tree, overlapping about every half-inch. Tie the wrap with twine or use a waterproof tape several places along the stem.

Smaller ornamentals should be mulched; this will not keep the soil from freezing but it helps keep the soil frozen to prevent root injury caused by alternate freezing and thawing of the soil.

The mulch should be loose, but it should stay where you put it. Do not use grass clippings because they pack too tightly. Instead, use clean wheat straw, shredded bark or peat moss.

To Protect Small Pigs

Cold weather is here and many small feeder pigs are not given sufficient protection. In our modern open-fronted finishing houses the small pigs may get too cold and come down with digestive and respiratory problems. We suggest that the pens be covered with boards, or other materials to form a hover over the back part of the pen. This will help maintain body heat and reduce the chance of any drafts over the smaller pigs. When the pigs pile up during cold weather, they are not warm enough. You may want to use heat lamps, or other forms of supplemental heat, on the small pigs during very cold weather.

OUR READERS WRITE

(Continued from Page A10)

matching grants to states to develop a state conservation program, is also being opposed.

The reason we (the board) are opposing this feature of the program is that the monies will be taken from current federal conservation program funds and it will make them less effective. The current funds should not be reduced but matching grants monies should strengthen these programs.

The proposed new conservation program does contain several features that we do support. The new program will allow our district to redirect local programs to solve priority problems.

The proposed program will provide better program and budget coordination between the federal agencies involved in conservation programs. The new proposed program also allows more research and pilot projects to test new conservation methods.

Mary Ann Rimby, Chairman
Berks Co. Conservation District
Leesport

Bible speaks

(Continued from Page A10)

cumstances: humble parents from the other side of the tracks (Nazareth), a lowly stable, an event totally unrecognized by the authorities of the community. But even more the manger symbolizes God's incarnation and appearance on the earth, not in the form of a great king, priest or prophet, but a tiny baby from a humble family. The titles, **SAVIOUR, CHRIST,** and **LORD** shout power and authority at us. But the little babe in a manger whispers to us of meekness, humility and vulnerability.

Glory In The Highest

What is God saying to us in this paradox? Obviously he is telling us that our human perceptions and values are not his. Human power is not divine power. God sees the world and judges it differently than we do.

Furthermore, he is telling us that his way of working in the world is not so much fireworks in the sky as loving works done through human beings on earth. Jesus would first have to be a helpless child — just as all of us born, grow and mature. Thus, with the manger sign from God we are reminded to mingle with our joy of celebration the humility and meekness of adoration before the manger.

'Preferred' spells disaster

The proposed program of the U.S. Secretary of Agriculture for the nation's soil and water resources could lead to the decline of northeastern agriculture.

The USDA proposed program under the Resources Conservation Act (RCA) would favor big agriculture in the Midwest at the expense of agriculture in the Northeast United States.

The Secretary plans to direct the largest amount of USDA funds where the soil erosion is the highest. This sounds good, but there's a catch. The Midwest, with its deep soils, can afford to lose ten ton of soil per acre per year, while a five ton loss in the Northeast with its shallow soils would soon spell the end of profitable farming.

Pennsylvania is located near one-fourth of the people in the nation. This means less energy use in getting the food to the consumer. It also means lower costs with shorter transportation, another benefit to the consumer.

The Secretary's preferred program also emphasizes conservation measures such as no-till farming and contour strip cropping. These practices are favored by the Secretary because they require little money on the part of the farmer to install. Both are effective in lowering soil erosion.

The practices are effective but the viewpoint is very shortsighted. Both of these practices are as easy to remove as to install and can be eliminated from the land by the farmer with little effort and thought about the consequences. In addition, a recent Dauphin County study showed that over 80 percent of the farmers using conservation tillage made it ineffective for erosion control by removing all the ground cover over winter.

The structural soil and water conserving practices, such as diversions, terraces and waterways do require a financial investment by the farmer. However, they are very effective not only in reducing soil erosion, but in controlling surface runoff.

Due to the financial investment, the farmer is not prone to remove these practices. Based on the life expectancy of a terrace or waterway, in the long run, they may be the most cost effective method of protecting our farmland.

Carl Kauffman
Executive Director
Pa. Farmers Union
Harrisburg

Farm Calendar

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Livestock market and auction news

Belleville Auction

Belleville, Pa.
Wednesday, Dec. 7
Report supplied by PDA

CATTLE 114. Compared with last Wednesday's market, slaughter cows 50 cents to $1.25 lower. Few Standard slaughter steers 50.25-56.75. Few Utility slaughter heifers 43.00-48.00. Utility & Commercial slaughter cows 34.00-37.50, couple to 39.00, Cutters 32.50-34.85, Canner & Low Cutter 30.00-32.50, Shells down to 25.00. Few Yield Grade #1 930-1920 lbs. slaughter bulls 38.00-46.10.

CALVES 178. One Choice vealer at 84.50, few Good 77.00-79.00, Standard & Good 70-100 lbs. 45.00-53.00, few Utility 55-80 lbs. 30.00-40.00. Farm calves, holstein bulls 85-125 lbs. 52.00-84.00, mostly 65.00-78.00; few holstein heifers 80-120 lbs. 56.00-99.00.

HOGS 236. Barrows & gilts $3 lower. Few Lots US No. 1-3 210-225 lbs. barrows & gilts 42.25-43.10, No. 1-3 200-245 lbs. 40.85-42.25, few lots No. 2-3 260-275 lbs. 38.00-40.25, few lots No. 1-3 178-195 lbs. 39.25-40.85. US No. 1-3 325-550 lbs. sows 33.00-36.50, couple 40.50. Boars 29.50-33.00.

FEEDER PIGS 334. US No. 1-3 20-35 lbs. feeder pigs 16.50-28.50 per head, No. 1-3 35-50 lbs. 26.50-33.50, No. 1-3 60-85 lbs. 33.50-38.50 per head.

SHEEP 32. Few Choice 90-105 lbs. wooled slaughter lambs 41.00-49.00, few new crop lambs 50.00-55.00, few to 84.00, few Utility 50-80 lbs. 35.00-41.00. Few Slaughter ewes 17.00-32.00.

GOATS 10. 21.50-48.00 per head.
HOLSTEIN DAIRY COWS $700-$1300, couple $1475 PER HEAD.

St. Louis Cattle

Thursday, Dec. 17
Report supplied by USDA

Receipts this week:	4,800;
Week Ago:	7,000;
Year Ago:	5,200;

Compared with last week's close, slaughter steers and heifers firm to .50 higher. Cows 2.00 to 3.00 higher. Bulls 3.00 higher. Slaughter supply mainly Choice and Choice and Prime 2-4 slaughter steers, around 35% heifers and 10% cows.

SLAUGHTER STEERS: Mixed Choice and Prime 2-4 1050-1250 lbs. 57.50-58.25, several 58.00. Choice 2-4 950-1250 lbs. 57.00-58.00. Mixed Good and Choice 2-4 900-1225 lbs. 55.00-57.00. Good 2-3 900-1150 lbs. 53.00-55.00. Mostly Good 2-3 1000-1500 lbs. holsteins 50.00-54.75, several 50.00-53.00.

SLAUGHTER HEIFERS: Mixed Choice and Prime 2-4 875-1050 lbs. 55.50-56.50, closing 56.00-56.50. Choice 2-4 825-1075 lbs. 54.50-56.00, closing sales 55.00-56.00. Mixed Good and Choice 2-3 750-1000 lbs. 53.00-55.00. Good 2-3 700-950 lbs. 51.00-53.00.

COWS: Closing week sales: Utility and Commercial 2-4 34.00-36.00. Boning Utility 1-2 36.00-38.00. Cutter 1-2 33.00-35.00. Canner and Low Cutter 1-2 30.00-33.00.

BULLS: Yield Grade 1-2 1050-1700 lbs. 40.00-46.00, closing 41.00-46.00. Yield Grade 1 1100-1500 lbs. 45.00-47.00, closing 46.00-47.00.

FEEDERS: (Including around 1,500 at the regular Thursday auction.) Feeder steers 5.00-7.00 lower. Feeder heifers mostly 5.00-6.00 lower except light supply 600-700 lbs. 2.00-4.00 lower. Supply mainly Medium Frame 1 and Mixed 1-2 400-800 lb. steers and 300-600 lbs. heifers. Fair buyer attendance.

FEEDER STEERS: Medium Frame 1: 350-500 lbs. 55.00-57.00; 500-600 lbs. 53.00-57.75; 650-700 lbs. 52.75-57.75; 700-800 lbs. 50.00-56.60; few lots 860-1000 lbs. 48.00-51.25. Medium Frame 1-2 and some Small Frame 1: 285-500 lbs. 46.50-52.00; 575-700 lbs. 50.25-51.75.

FEEDER HEIFERS: Medium Frame 1: 300-450 lbs. 43.00-47.25; 500-600 lbs. 43.75-49.00; lot thin 515 lbs. 53.00; few lots 600-625 lbs. 48.00-50.25. Medium Frame 1-2 and some Small Frame 1: 300-500 lbs. 39.00-43.00; few lots 650-750 lbs. 40.00-42.25.

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We're levelling with you!

Model T610 610 U.S. gallon (2310 litre) tank capacity

STANDARD FEATURES

- 5 year pro-rated tank warranty
- 20% more capacity than the model T510
- 610 U S gallon tank has centre baffle (patent pending) to minimize liquid impact on tank ends
- Low profile heavy duty polyethylene tank allows better rear visibility and weight distribution
- Gallonage scale on each end of tank
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- Nylon fittings throughout to allow the use of liquid fertilizers and most other farm chemicals.
- Fully equipped with chemical and weather resistant EPDM hose
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- Large easy to clean suction filter
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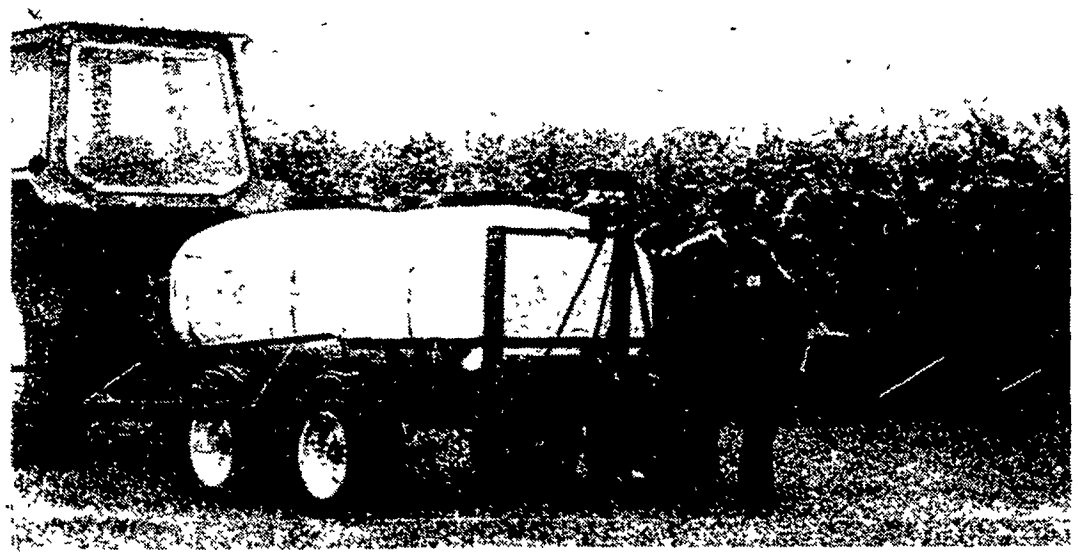
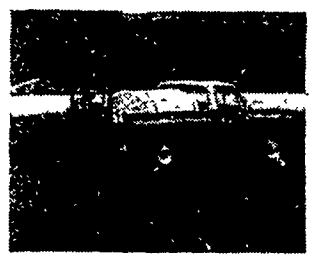
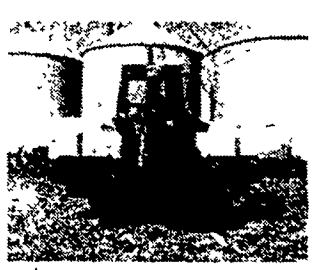
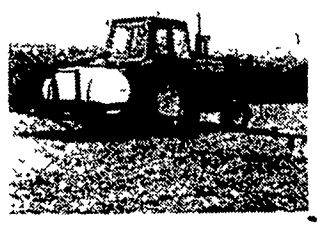
- Adjustable tongue jack
- Adjustable tandem axle varies wheel track from 54" to 90" and has 2 position ground clearance settings of 22" and 28"
- Spraying pressure measured at the boom to eliminate inaccurate readings caused by pressure loss from control to boom







George White Has The Sprayer To Fit Your Needs



— See Your Local Dealer Listed Below —

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Deerfield, NJ
609-451-8376

ANTIETAM FORD TRACTOR
Hagerstown, MD
301-791-1200

NORMAN BRIGHT, INC.
New Egypt, NJ
609-758-2211

CHAMBERSBURG FARM SERVICE
Chambersburg, PA
717-264-3533

CHAPMAN EQUIPMENT CENTER
Wescosville, PA
215-398-2553

A.B.C. GROFF
New Holland, PA
717-354-4191

GRUMELLI FARM SERVICE
Quarryville, PA
717-786-7318

HEISEY FARM EQUIPMENT
Jamestown, PA
717-865-4526

ROBERT E. LITTLE
Zieglerville, PA
215-287-9643

MELROSE FARM SERVICE, INC.
Greencastle, PA
717-597-3138

MESSICK FARM EQUIPMENT
Elizabeth, PA
717-367-1439

FRANK RYMON & SON
Washington, NJ
201-689-1464

SAUMS & SONS, INC.
Flemington, NJ
201-782-4242

SMELTZER EQUIPMENT & SUPPLY
Bellefonte, PA
814-359-2544

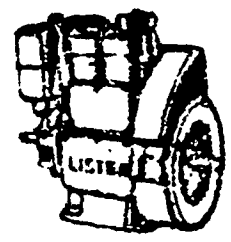
TRACTOR PARTS COMPANY
Bloomsburg, PA
717-784-0250

WERTZ GARAGE, INC.
Lineboro, MD
301-374-2672

WOODHULL EQUIPMENT COMPANY
Medford, NJ
609-654-2011

SMUCKER'S SALES SERVICE, INC.

RD #2, BOX 21
NEW HOLLAND, PA 17557



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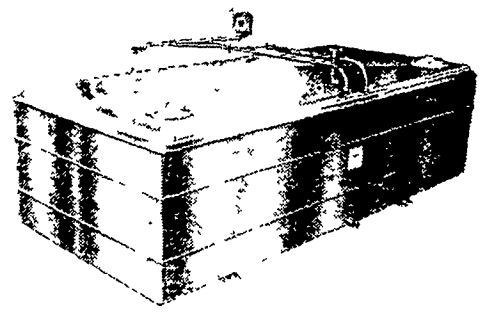

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- URETHANE (FOAMED IN PLACE) INSULATION

FOR PROMPT SERVICE CALL 717-354-4158 OR IF NO ANSWER CALL 717-354-4374

Livestock market and auction news

Oklahoma Cattle

Thursday, December 17
Report supplied by USDA

Actual Auction Receipts 715
Same Day Last Week 2938

Feeder Steers under 500 lb. steady; over 500 lb. 1.00-1.50 lower. Feeder Heifers steady. Demand moderate for Steers under 500 lb. and for Heifers of all weights. Light demand for Steers over 500 lb. Bulk supply Medium Frame 1 and Mixed 1-2 400-650 lb. Feeder Steers and Heifers; Cows and Bulls near 15 percent. Slaughter Cows 1.00-1.50 higher. Bulls steady. Slaughter Cattle demand good.

FEEDER STEERS: Medium Frame 1 325 lb. Bulls 64.50; 400-500 lb. 60.75-66.00; 500-600 lb. 57.00-58.70 very thin 540 lb. 64.00; 600-675 lb. 55.10-59.30; package 945 lb. 51.75. Medium few Large Frame Mixed 1-2 305 lb. Bulls 61.25; 400-500 lb. 56.80-60.00; very thin 470 lb. 62.30; very thin 595 lb. 60.00; 600-675 lb. 53.40-55.80; 700-760 lb. 54.10-54.90. Large Frame 2 Holsteins 380 lb. 53.00.

FEEDER HEIFERS: Medium Frame 1 145 lb. 59.00; 225-300 lb. 54.75-56.00; 320 lb. 53.00; 400-625 lb. 50.00-54.00; lot 610 lb. 54.10. Small Frame 1 480 lb. 47.00. Medium few Large Frame Mixed 1-2 350-625 lb. 47.00-51.00.

SLAUGHTER COWS: Utility and Commercial 2-3 few 4 36.75-40.50, cutter 1-2 pkg. 985 lb. 36.80; Canner and low dressing Cutter 30.80-34.00.

SLAUGHTER BULLS: YG 1-2 1330 lb. 49.75; 890 lb. 46.25.

FOR THE WEEK: Compared to last Thursday - Feeder Steers under 600 lb. 1.00-2.00 lower; Over 600 lb. 3.00-4.00 lower. Feeder Heifers 1.00-3.00 lower. Slaughter Cows firm to mostly 3.00 higher. Bulls largely steady. Late sales Utility and Commercial 2-3 few 4 cows 36.75-40.50. Cutter 1-2 35.50-37.90 on Wednesday with no test Thursday. Canner and low Cutter 30.80-34.00. Late sales YG 1-2 Bulls 1150-1400 lb. 48.25-52.00; few 1400-1600 lb. 51.50-52.00. Salable receipts this week near 8700 head compared with 18,083 head last week and 14,654 head last year. Feeder Steers and Heifers made up 85 percent of this weeks run; Cows and Bulls 15 percent.

Westminster Livestock Auction

Westminster, Md.
Tuesday, Dec. 15
Report supplied by auction

BUTCHER COWS: 50 cents higher on light run. High Yield Individual to 44.25; Standard & Utility 37.00-39.25; Canners 34.00-37.00; Shelly 34.00 Down. Bulls Good Holsteins 1000-1300 lbs. 44.50-46.50; Steers Good to 54.50; Holsteins 45.00-48.00; Heifers Few Good 47.50-50.00 Commercial 42.00-45.00.

BUTCHER HOGS: No Good hogs offered. US #2 & 3 215-240 lbs. to 39.00; 240-260 lbs. to 38.25; 195-210 lbs. to 39.50; 270-290 lbs. 35.00-37.00. SOWS: 400-500 lbs 33.00-34.00.

VEAL CALVES: Only small calves offered. Standard 60.00-70.00; Killers 80-100 lbs. 52.00-56.00; Weak & Rough 52.00 Down.

CALVES RETURNED TO FARM: Active bidding! Holstein Heifers Several 95-110 lbs. 110.00-130.00; Holstein Bulls 95-120 lbs. 60.00-104.00; Mainly 80.00-102.00.

STOCK CATTLE: Steers few Good 700-760 lbs. 54.50-56.50; Holsteins 600-750 lbs. 39.00-43.00; Heifers Few Holsteins 500-700 lbs. 47.00-50.00.

PIGS AND SHOATS: By the Head 20-40 lbs. 10.00-20.50.

Belleville Auction

Wednesday, December 16
Report supplied by auction

CATTLE 125. Couple Choice slaughter steers 50.50 and 58.85. Few Choice slaughter heifers 55.50-55.85, Standard holsteins 40.75-48.00. Utility & Commercial slaughter cows 40.75-42.50, couple 43.50, Cutters 39.10-41.00, Canner & Low Cutter 34.75-38.50, Shells down to 25.50. Yield Grade #1 1110-1340 lbs. slaughter bulls 40.75-47.85.

CALVES 150. Good vealers 70.00-75.00, Standard & Good 70-100 lbs. 45.00-54.00, Utility 55-75 lbs. 30.00-42.00. Farm calves, holstein bulls 90-120 lbs. 65.00-99.00.

HOGS 215. US No. 1-2 210-235 lbs. barrows & gilts 42.00-43.10, No. 1-3 195-245 lbs. 38.10-41.85. US No. 1-3 310-580 lbs. sows 31.75-38.00. Boars 28.50-31.75.

FEEDER PIGS 146. US No. 1-3 20-35 lbs. feeder pigs 15.50-31.00 per head. No. 1-3 35-50 lbs. 28.50-35.50, No. 1-3 50-65 lbs. 36.50-51.50 per head.

SHEEP 15. Choice 80-100 lbs. wooled slaughter lambs 40.50-47.00. Slaughter ewes 16.00-20.50.

Indiana Livestock

Homer City, PA
Thursday, December 17
Report supplied by PDA

CATTLE: 94 Compared with last week's market: Sl. steers few Standard 43.50-46.00; few Utility 34.50-40.00. Sl. heifers few Standard 39.00-44.00. Sl. cows: Utility & Commercial 38.00-44.00; Cutters 34.00-39.25; Canner & L. Cutter 29.50-34.75; Shells down to 27.50. Sl. bullocks: one Standard at 46.50. Sl. bulls: one Yield Grade No. 1, 1555 lbs. at 48.50.

FEEDER CATTLE: Steers, Medium Frame No. 1, 400-850 lbs. 41.00-50.00. Heifers, Medium Frame No. 1, 450-690 lbs. 36.00-41.50.

CALVES: 135. Couple Choice 84.00-92.00; Good 64.00-76.00, 90-120 lbs. 40.00-58.00; 65-85 lbs. 30.00-45.00; Utility 50-120 lbs. 15.00-30.00.

FARM CALVES: Hol. Bulls 100-130 lbs. 60.00-91.00; few Hol. Heifers 85-115 lbs. 50.00-66.00.

HOGS: 95 few US No. 1-2 220-225 lbs. 41.75-43.25 No. 1-3 220-235 lbs. 40.25-41.50; few No. 2-3 215-265 lbs. 39.00-40.00; one lot No. 1-3 122 lbs. at 29.25; Sows couple US No. 13 420 & 535 lbs. 41.25; few No. 2-3 340-480 lbs. 30.00-36.25. Boars 30.75-33.50.

FEEDER PIGS: 15. One lot US No. 1-3 25 lbs. at 15.50 per head; few No. 1-3 60-80 lbs. 23.00-25.00.

SHEEP: 6. One lot Choice 90 lbs. at 46.00; couple Good 65 lbs. at 36.00.

Leesport Auction

Leesport, Pa.
Wednesday, December 16
Report supplied by PDA

CATTLE 188: Compared with last Wednesday's market, slaughter steers steady to weak. Slaughter cows strong to 3.00 higher, most advance on Utility & Commercial. Choice 935-1280 lbs. slaughter steers 59.50-63.00, one at 63.50, Good 54.35-59.75, Standard 50.00-54.50, Utility & Low Standard 45.00-49.25. Few Good slaughter heifers 52.10-55.00. Utility & Commercial slaughter cows 40.50-44.85, few to 45.35, Cutters 36.75-41.75, few Canner & Low Cutter 34.00-37.00, Shells down to 25.00. Few Good slaughter bullocks 56.00-59.75, few Standard 52.00-55.25. Yield grade #1 1300-1700 lbs. slaughter bulls 50.00-57.00, one at 58.00; few yield grade #2 920-1345 lbs. 40.50-48.25. Few Large Frame #1 420-735 lbs. feeder steers 54.50-55.00, few Large Frame #2 540-800 lbs. 40.50-42.00; Medium Frame #1 400-815 lbs. feeder bulls 48.50-54.50.

CALVES 104: Few Choice vealers 86.00-90.00, few Good 68.00-76.00, few Standard & Good 110-130 lbs. 58.00-65.00, 90-110 lbs. 52.00-58.00, 75-85 lbs. 45.00-55.00, Utility 60-100 lbs. 30.00-50.00. Farm calves, holstein bulls 90-135 lbs. 60.00-73.00, few to 77.00; holstein heifers 90-130 lbs. 70.00-103.00.

HOGS 257: Barrows & gilts about steady. US No. 1-2 200-235 lbs. barrows & gilts 42.25-43.00, one lot 43.50, No. 1-3 195-245 lbs. 41.85-42.50, few No. 2-3 290-320 lbs. 41.50-42.50, one lot No. 1-3 170 lbs. at 40.75. US No. 1-3 300-600 lbs. sows 32.25-35.00, few 38.75, few Utility 290-390 lbs. 30.00-33.25. Boars 30.00-32.00.

FEEDER PIGS 186: Two lots US No. 1-3 20 and 25 lbs. feeder pigs 75.00 and 88.00 cwt., No. 1-3 25-50 lbs. 65.00-71.00 cwt.

SHEEP 58: One Lot Choice 60 lbs. wooled slaughter lambs at 62.00, Good & Choice 55-105 lbs. 45.00-50.00, one lot Utility 50 lbs. at 40.00; Few Choice 35-45 lbs. New crop lambs 120.00-126.00, one lot 53 lbs. at 90.00, few 65-70 lbs. 68.00-80.00. few 95-105 lbs. at 60.00. Slaughter ewes 17.00-28.00.

GOATS 5: Few 25.00-41.00 per head.

Chambersburg Auction

Chambersburg, PA
Thursday, December 17
Report supplied by PDA

CATTLE: 315. Compared with last week's market: Sl. cows 2.50-5.50 higher. Sl. steers few Choice 1050-1250 lbs. 58.00-60.85, few Good 54.25-59.00; Standard 50.50-54.00. Sl. heifers few Good & Choice 54.00-54.75. Sl. cows: Utility & Commercial 38.00-44.35, few to 47.00, Cutters 36.00-41.00; Canner & L. Cutter 32.50-37.50; Shells down to 25.00. Sl. bulls: Yield Grade No. 1, 900-1900 lbs. 45.00-55.85.

CALVES: 691. Vealers steady to 4.00 higher. Few Prime 103.00-104.00; Choice 87.00-98.00; Good 67.00-88.00 few Standard & Good 100-115 lbs. 57.00-64.00; 70-95 lbs. 50.00-57.00; few Utility 50-80 lbs. 36.00-52.00.

FARM CALVES: Hol. Bulls 85-130 lbs. 55.00-85.00 few to 101.00, mostly 60.00-75.00; Hol. Heifers 75-150 lbs. 75.00-112.00.

HOGS: 70. Barrows and gilts steady to .50 lower, one lot US No. 1-2 230 lbs. 41.75, No. 1-3 210-255 lbs. 39.60-41.50. Sows US No. 1-3 300-550 lbs. 36.00-40.00. One Boar at 30.50.

FEEDER PIGS: 44, few US No. 1-3 20-45 lbs. 15.00-24.00 per head.

SHEEP: 7 few Good & Choice 70-80 lb. 43.00-48.00.

GOATS: 4.

New Holland Dairy

New Holland, Pa.
Wednesday, Dec. 16
Report supplied by auction

Reported receipts of 87 cows, 86 heifers. Market steady.

Load of NY fresh cows, 1200.00-1500.00; Load of Canada, fresh & springers 1100.00-1300.00.

1 outstanding cow 1650.00.

Locally consigned cows 850.00-1300.00; Good quality Springing heifers 1050.00-1250.00; Other springing heifers 850.00-1050.00; Open Heifers 200.00-550.00; Shortbred heifers 550.00-650.00.

Fogelsville Poultry

Fogelsville, Pa.
Tuesday, Dec. 8
Report supplied by USDA

HENS, LIGHT TYPE: range 5-12, mostly 12.

HENS, HEAVY TYPE: range 21-35, mostly 29.

PULLETS: range 48-56.

CAPONS: range 50-75.

FRYERS: range 46-54.

DUCKS: range 60-96, mostly 73.

DRAKES: range 60-96, mostly 73.

GEESE: range 39-75, mostly 75.

TURKEYS, TOMS: range 30-43, mostly 43.

TURKEYS, HENS: range 54.

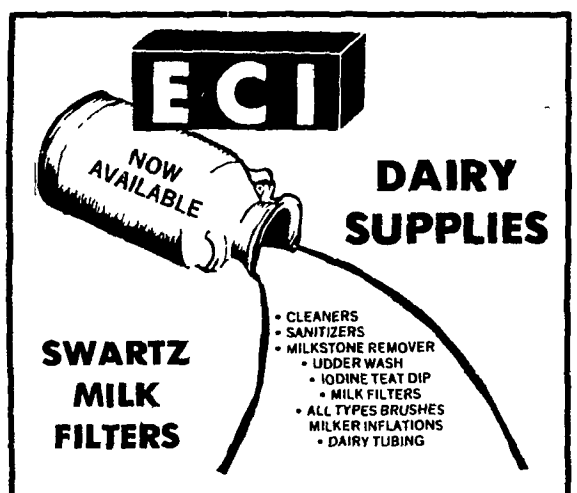
RABBITS: range 12-105, mostly 60.

GUINEAS: range 1.25.

PIGEONS (PER PAIR): range 1.50-2.50, mostly 2.00.

JUMBO SQUAB: range 450.

TOTAL COOPS SOLD: 300.



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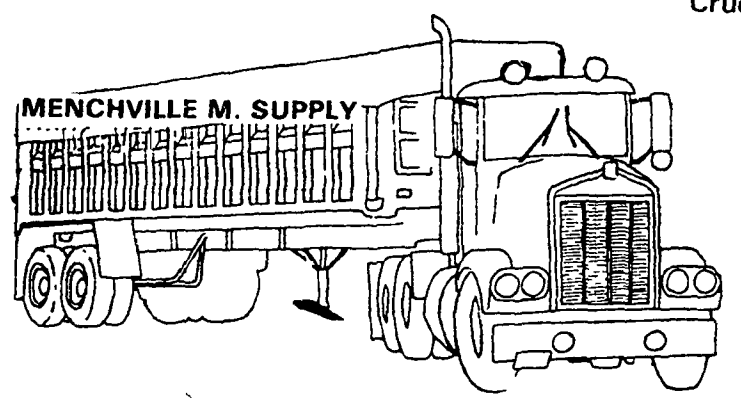
ANALYSIS ON 100% DRY BASIS

Crude Protein	24%/29½%
Crude Fiber	15%/16½%
Crude Fat	5%
NFE	38%

LOADED FROM THE BREWERY



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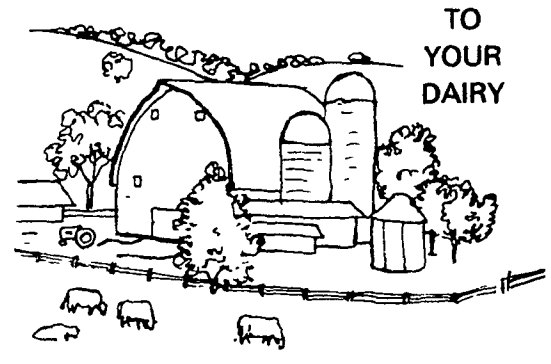

TO YOUR DAIRY

Livestock market and auction news

Weekly Summary

Friday, December 18
Report supplied by PDA

CATTLE: 4363, Compared with 5297 head last week, and 4032 head a year ago. Compared with last week's market: Slaughter steers uneven, high Good & Choice steady - 1.50 higher, Standard & Good steady - 1.00 lower; Sl. heifers steady - 1.00 lower; Sl. cows uneven, steady to 3.50 higher, most advance on utility & commercial; sl. bulls 1.00-2.00 lower. Sl. steers: High Choice & Prime 63.35-65.25; Choice 58.00-63.00 Good 53.00-59.00; Standard 48.00-54.00 few down to 44.00. Sl. heifers: few Choice 54.00-61.00; Good 49.00-55.00; few Standard 37.00-44.75. Sl. cows: Utility and Commercial 36.00-44.00; Cutters 33.00-40.00; Canner & L. Cutter 28.00-37.00; Shells down to 15.00. Sl. bullocks few Choice 54.75-62.00; few Good 50.75-58.00. Sl. bulls: Yield Grade No. 1, 1100-2100 lbs. 44.00-53.00.

FEEDER CATTLE: Steers, Medium Frame No. 1, 325-850 lbs. 37.00-49.00, few to 55.00; Large Frame No. 2, 300-800 lbs. 32.00-42.00. Heifers, Medium Frame No. 1, 300-700 lbs. 32.00-45.00; Bulls; Medium Frame No. 1, 400-800 lbs. 45.00-54.00.

CALVES: 3860 Compared with 4021 head last week and 3534 head a year ago. Vealers steady - 5.00 lower, few Prime 103.00-116.00; Choice 80.00-100.00; Good 63.00-85.00, few Standard & Good 110-130 lbs. 55.00-65.00; 90-110 lbs. 45.00-58.00; 70-90 lbs. 30.00-55.00; Utility 55-100 lbs. 15.00-50.00.

FARM CALVES: Hol. Bulls 90-135 lbs. 60.00-101.00; Hol. Heifers 90-145 lbs. 70.00-122.00.

HOGS: 6722 Compared with 7509 head last week and 6283 head a year ago. Barrows and gilts steady - 1.50 lower. US No. 1-2 200-240 lbs. 41.75-44.50 No. 1-3 200-250 lbs. 40.00-43.00; few No. 2-3 220-290 lbs. 37.00-40.25; No. 1-3 140-190 lbs. 32.00-39.50; Sows 3.00-4.00 lower. US No. 1-3 300-600 lbs. 32.00-40.00; few No. 2-3 400-700 lbs. 30.00-36.00. Boars 25.00-32.00.

FEEDER PIGS 640. Compared with 1418 head last week and 1431 a year ago. Unevenly steady US No. 1-3 25-35 lbs. 10.00-25.00 per head; No. 1-3 35-50 lbs. 22.50-35.00; No. 1-3 50-75 lbs. 25.00-50.00. Utility 20-40 lbs. 5.00-17.00.

GRADED FEEDER PIGS: 1764. Compared with 3061 head last week, and 2204 head a year ago. All sales by CWT. Feeder Pigs uneven, mostly 3.00-7.00 lower. US No. 1-2 25-40 lbs. 65.00-89.00, 40-50 lbs. 55.00-85.00, 50-60 lbs. 54.00-85.00, 60-95 lbs. 51.00-60.00; US No. 2-3 30-40 lbs. 64.00-85.00, 40-50 lbs. 55.00-82.00, 50-100 lbs. 46.00-56.00.

SHEEP: 996. Compared with 718 head last week and 707 head a year ago. Wooled sl. lambs steady - 2.00 lower. Choice 60-110 lbs. 46.00-58.00; Good 50-100 lbs. 38.00-49.00. Sl. ewes 12.00-35.00.

Carlisle Auction

Carlisle, Pa.
Wednesday, Dec. 16
Report supplied by auction

CATTLE: STEERS: Good 52.00-55.50. HEIFERS: Good 55.00; Standard 39.50. COWS: Utility & Commercial 38.75-42.00; Cutter 36.50-39.00; Canner & Low Cutter 32.75-36.00. SHELLS down to 29.50.

BULLS: Yield Grade No. 1 42.50-45.50.

FEEDER STEERS: 48.00-56.00.

CATTLE HEIFERS: 48.00-49.50.

BULLS: 37.00-45.50.

New Holland Horse

Monday, Dec. 14
New Holland Sales Stables
Report supplied by auction

Reported receipts of 246 head of horses, mules, and ponies. Market: killer, strong; other, steady.

2 Loads of riding Ky. 650.00-950.00; Load of riding W. Pa. 550.00-750.00.

1 outstanding registered 1010.00.

Work horses 650.00-810.00; Lightweight killers 250.00-500.00; CALVES: VEALERS: Choice 80.00-97.00; Good 65.00-85.00; Standard & Good 60.00-80.00; Standard & Good 50.00-65.00.

FARM CALVES: Hol. Bulls 93.00-98.00; Hol. Heifers to 120.00.

HOGS: Barrows & Gilts US No. 1-2 42.75-45.00; US No. 1-3 39.00-43.00; US No. 2-3 36.00-40.00. SOWS: US No. 1-3 34.50-37.50; No. 2-3 30.00-33.50. Boars 28.75-29.25.

FEEDER PIGS: US No. 1-3 18.00-25.00; No. 1-3 29.00-33.00.

Heavyweight killers 500.00-700.00; Smaller ponies 25.00-75.00; Larger ponies up to 250.00.

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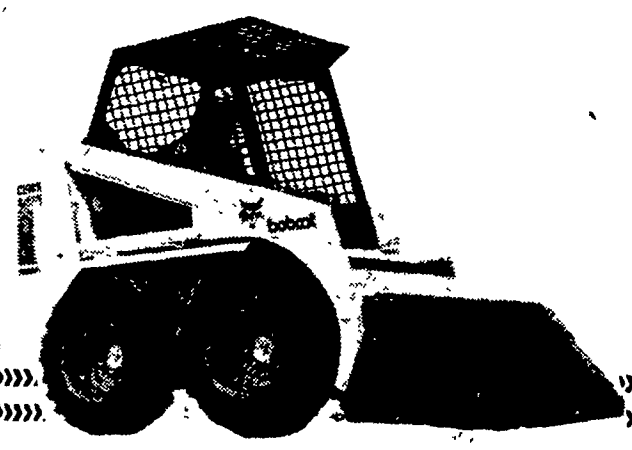

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MODEL 730, S/N 4998-M-12115, Wisconsin Gas Eng., Solid tires, Grapple, Hydrostatic drive, 1600 Hours $8,300.00
MODEL 731, S/N 5006-M-12051, Deutz Diesel Eng., Flotation tires, 60" Bkt., Hydrostatic drive 1200 Hours, from Rental Fleet $13,000.00
MODEL 825, S/N 4958-MA-18496, Perkins Diesel Eng., Flotation tires, 66" Bkt., Hydrostatic drive, 300 Hours, from Rental Fleet $17,000.00

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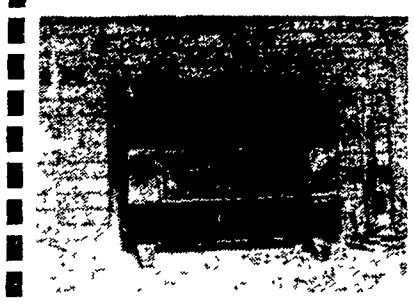

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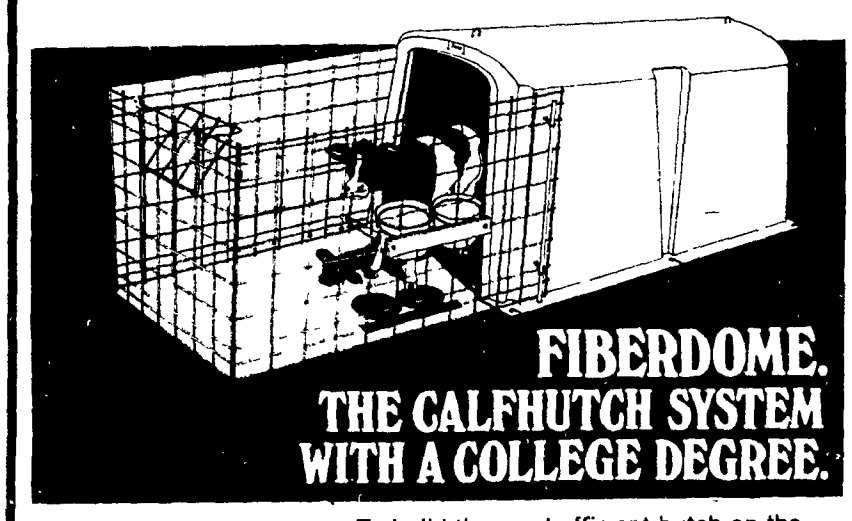

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Bradford Co. honors Extension Cooperator of the Year

BY JANE BRESEE
Staff Correspondent

WYSOX — Eugene Harris, a well known farmer and community leader, was named the Extension Cooperator of the Year at the 68th Annual meeting of the Bradford County Extension Service held December 9, at the Wysox Fire Hall.

Harris and wife Alice have two children-Brian, a partner on the home dairy farm and Sylvia, wife of Malcolm Murphy of Ulster.

A graduate of Alfred University, Harris has been a 4-H leader for 25 years. He was a sponsor of the 4-H International Farm Youth Exchange, hosting three of the young people in his home. Harris has worked closely with the Cooperative Extension having been a member and past president of the Executive Committee. He has also served on the District 4-H Dairy Show and County 4-H Dairy Show committees.

A lifetime Jersey breeder, and acting director in both the local and state Jersey Cattle Clubs, Harris also is a 45 year member of the East Smithfield Grange having held all offices. He is a church trustee, a church choir member, and chairman of the church building committee.

In addition, Harris has served as East Smithfield Bank director for 14 years, is an active Mason of 40 years, and a long time member of the Bradford-Sullivan County Farmers' Association. He presently sits on the board of the Bradford Citizens Health Foundation.

Upon receiving the certificate from Ed Dietfenbach, Northern Tier Regional Association Director of the Extension Service, Harris remarked that he is proud to have worked with Extension and proud to have been born and raised in Bradford County.

Gary Green of Warren Center, president of the Extension Executive Committee, moderator for the meeting, introduced the main speaker, Dr. Maurice Kramer, an administrator of 4-H programs at Penn State. Kramer named some of the problems of youth today — loneliness, drugs and vandalism — and stated that 4-H can give young people impact to help solve some of these difficulties.

Four-H can give young people a chance to succeed, and to participate as a family unit. It will help them decide a life style for themselves, and set standards and goals, he said.

"Money cannot buy the feeling of satisfaction a leader can get from seeing a young person do something they thought they couldn't do," Kramer said, and challenged the audience to tackle the hard job of being a 4-H leader.

Dale Allis of South Hill Farm near Wyalusing, was then presented with the Outstanding Farmer of the Year award from Rich Gingrich, representing the Towanda Jaycees.

According to Gingrich who punctuated his remarks by showing slide pictures of the Allis family and farm. Allis had graduated from Wyalusing High School in 1971 and worked for seven years on a dairy farm in New York State where he was given the incentive of every third heifer calf born.

In 1978, Allis bought the home farm and has been successful in raising milk production from 12,500 pounds average to 16,000 pounds average in three years. They also have the fifth lowest somatic cell count in the county and were lucky this past year to have two-thirds of their home calves born as heifers.

Many soil and water conservation measures have been implemented on the farm including strip farming, drain tillage, pond installation, and tree planting, Gingrich stated.

The plaque was sponsored and presented by Kenneth Bartholomew of Rolling Acres of Wysox. This is the third year the award has been given.

Brian Harris, chairman of the Linda Hulslander 4-H Memorial Building Fund, reported that approximately $9000 had been

(Turn to Page A17)

Mr. and Mrs. Dale Allis of Wyalusing, center, the proud recipients of the Bradford County Jaycees Outstanding Young Farmer Award, are congratulated by Orville Yoder, left, Bradford County Agent and Rich Gingrich, right, member of the Jaycees.

Gary Green, left, president of the Bradford County Extension Committee, congratulates Eugene Harris, recipient of the 1981 Cooperator Award.

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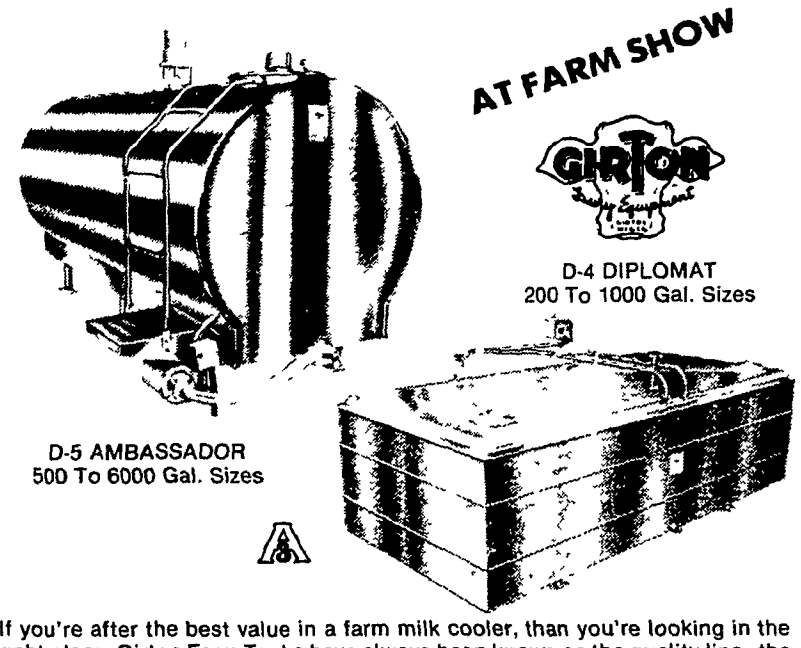

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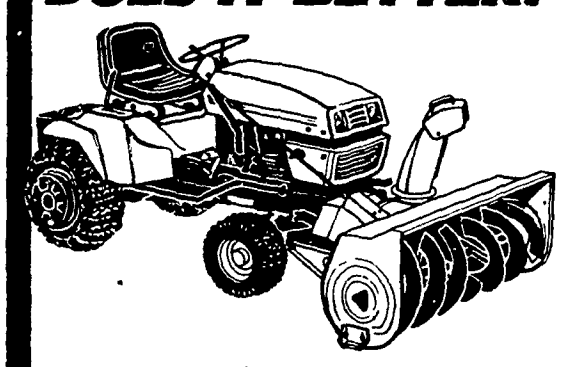

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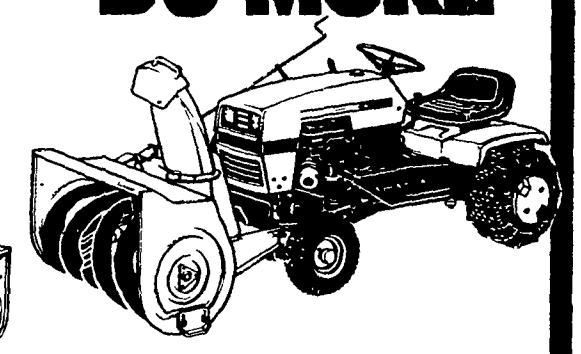

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Farming's Futures

By David K. Sauder
Commodity Advisor
Trade Tech, Lancaster

Can the basis be predicted exactly?

From the earlier discussion of the many economic factors that can and do influence the basis from one month to the next or even from one year to the next, the answer is obviously that what the basis will be in a given month in the future cannot be predicted exactly.

For example, if you hedge by selling at a futures price of $2.25 in anticipation that the basis at the time of delivery will be 25 cents, the basis may or may not turn out to be exactly 25 cents. It may be 20 cents (thereby netting you a higher price than you anticipated) or it may be 30 cents (thereby netting you a lower price than you anticipated).

The uncertainty as to what the basis will be at a given time in the future results in what is known as basis risk. It is the reason that the results of hedging are not always penny perfect.

Even so, basis can generally be predicted with far greater accuracy than the level of prices. Hedgers are thus willing to accept the relatively small risk of an unfavorable basis change in preference to the usually much greater risk of an unfavorable price level change. By hedging, they in effect substitute basis risk for price level risk.

How can a hedger use his basis knowledge profitably?

Successful hedgers who seek to lock in a storage payment continuously attempt to initiate their hedges at a time when the basis is as wide as possible and lift their hedges when the basis is as narrow as possible. While there is certainly no assurance that they will be able to carry out such a strategy, they are ever-watchful for opportunities.

Example: Assume you hedged corn when the local price was $2.00 and the futures price was $2.50 — a basis of 50 cents. You anticipate that when you are ready to sell your corn locally and lift the hedge the basis will be about 25 cents — giving you a net price of $2.25.

As the delivery month approaches you watch the basis carefully and, on a particular day, you notice that it has narrowed sharply to 10 cents. By seizing on the opportunity to sell your corn and lift the hedge on a narrower than expected basis, you net $2.40 — which is 15 cents a bushel more than you anticipated.

Is it possible to forecast, in advance of harvest, what the basis is likely to be at harvest?

To the extent that the basis is at least partially a reflection of the demand for storage space, a large crop is frequently an indication to expect a wide basis at harvest (when the need for storage space may exceed the supply, causing cash prices to be discounted more than usual in relation to futures prices).

As the marketing year progresses and the supply of grain still seeking storage diminishes, the basis generally returns to more normal levels. As a result, large crops are often associated with larger-than-usual opportunities for storage profits. Charts will help you to recall the basis — and the reasons for it — in previous years.

Can basis information be used to evaluate a forward contract price?

Definitely yes. Assume, for the sake of illustration, that just prior to harvest a local elevator is offering $2.00 for corn to be delivered in April.

Noting that the current May futures prices is $2.40 and knowing that the usual local basis in April is 35 cents, you determine that the sale of a May futures contract should net you about $2.05 for your corn delivered in April — 5 cents higher than the elevator is offering.

This doesn't necessarily mean the elevator's forward contract offer might not be to your advantage, however. For one thing, it relieves you of a basis risk (the risk that the basis in April may turn out to be significantly wider than the 35 cents you've estimated). In addition, contracting with the elevator saves you having to pay brokerage commissions and meet margin requirements.

Thus, while there is clearly no answer that is right for every farmer in every case, knowing the normal basis in your area can help you to arrive at the answer that is likely to be best for you.

Similarly, if an elevator or other buyer should happen to offer you a "basis price" for your grain with the actual selling price to be set at some later time, a knowledge of the usual basis can be useful in deciding whether to accept the offer. (It may be to your advantage to accept a basis price several cents wider than the usual basis in order to avoid the basis risk.) Again, having basis information at your fingertips can help you to make an informed decision.

Does a narrow basis signal a good time to sell grain?

A narrow basis is an indication that, for some reason or a combination of reasons, buyers are currently willing to pay a higher than usual price (in relation to futures prices) for grain for immediate delivery. This situation may prevail nationwide or in only a limited area.

In any case, it can pay to try to determine the reasons for a narrower than normal basis. It could be only a temporary situation which you may want to capitalize on by selling your grain while the high prices last. Or the narrow basis could be a harbinger of even higher prices to come. This could be the situation, for example, if the strong demand for cash grain is due to a present or potential shortage.

Send your questions about futures trading to Farming's Futures, Lancaster Farming Newspaper, Box 366, Lititz, PA 17543.

Bradford Co.

(Continued from Page A16)

raised to date. He stated that he hoped the goal of $35,000 could be realized soon so that the building could be completed by next July.

Following a short business meeting, two new directors were elected to the executive committee for a six year term: Ellen Foust of Granville, and Roy Beardslee of Wetona.

Cooperative Extension workers introduced were Orville Yoder, Bradford County Agent, Al Homan and Jake Gulfey, county agents, Lovetta Comstock, 4-H agent, Cathy Bakalar, nutrition home economist, Jean Smith and Carol Chattee, secretaries, and members of the extension executive committee.

Correct manganese deficiency in field corn

NEWARK, Del. — Manganese deficiency in field corn can be corrected by using an acid-forming fertilizer banded close to the corn row at planting, reports University of Delaware agronomist William H. Mitchell.

He conducted tests last summer at the university's Georgetown Substation on a sandy soil with a pH of about 6.4 and a low residual level of manganese. Similar soil conditions are frequently encountered throughout southern Delaware.

For the trial, several nitrogen materials were banded at varying distances from the corn row. Yields from three treatments were compared with those from the control, which received no banded fertilizer. All treatments were tested under partial irrigation and dry land conditions.

Grain yield in the control plots averaged 19.5 bushels without irrigation and 69.8 bushels with partial irrigation, reports Mitchell. Banding manganese sulfate to supply two pounds of manganese per acre increased dry land and irrigated yields to 32.8 and 87.2 bushels, respectively. With the addition of an acidifying fertilizer such as ammonium sulfate, the dry land and irrigated yields increased to 48.2 and 105.7 bushels.

Soil pH values in the fertilizer bands dropped from 6.4 for the control, to 6.0 and 4.8 for the manganese and ammonium sulfate treatments, respectively. The acidifying fertilizer lowered the soil pH and increased the availability of manganese to the corn plants, he says. All of the ammoniacal nitrogen sources tested were effective in lowering soil pH and increasing the solubility of manganese.

"Since banded fertilizer supplies nitrogen in addition to enhancing manganese absorption through pH adjustment, it is the most economical approach to manganese deficiency problems on many Delaware farms," the agronomists concludes.

Animal welfare slides available

EPHRATA — "Welfare of Animal Agriculture," a new audio slide show addressing the current question of animal rights, made its premiere appearance at the recent meeting of the Century Club of the Pennsylvania Farmers' Association.

Produced for PennAg Industries Association, the 16-minute presentation stresses the relationship between the livestock farmer and his animals. Through music, dialogue, and the use of full color farm scene slides, the show depicts a realistic look at modern livestock farming.

PennAg, the statewide trade organization of agribusiness firms, is releasing the slide show for public use and already several showings have been scheduled. For more information about the presentation, contact PennAg Industries Association, Box 329, Ephrata, PA 17522, (717) 733-2238.

PennAg also offers another slide show to the public, Careers in Agribusiness. For more information about this presentation, contact the above.

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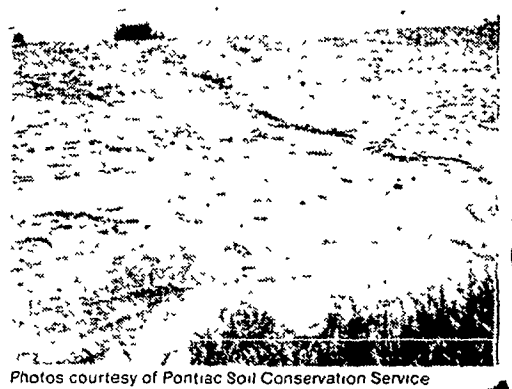

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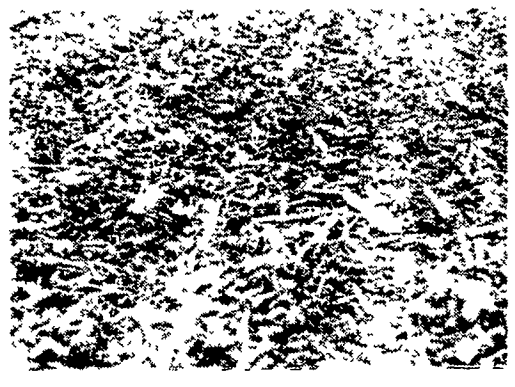

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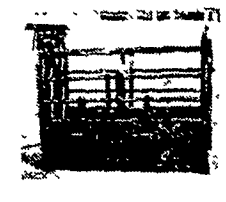

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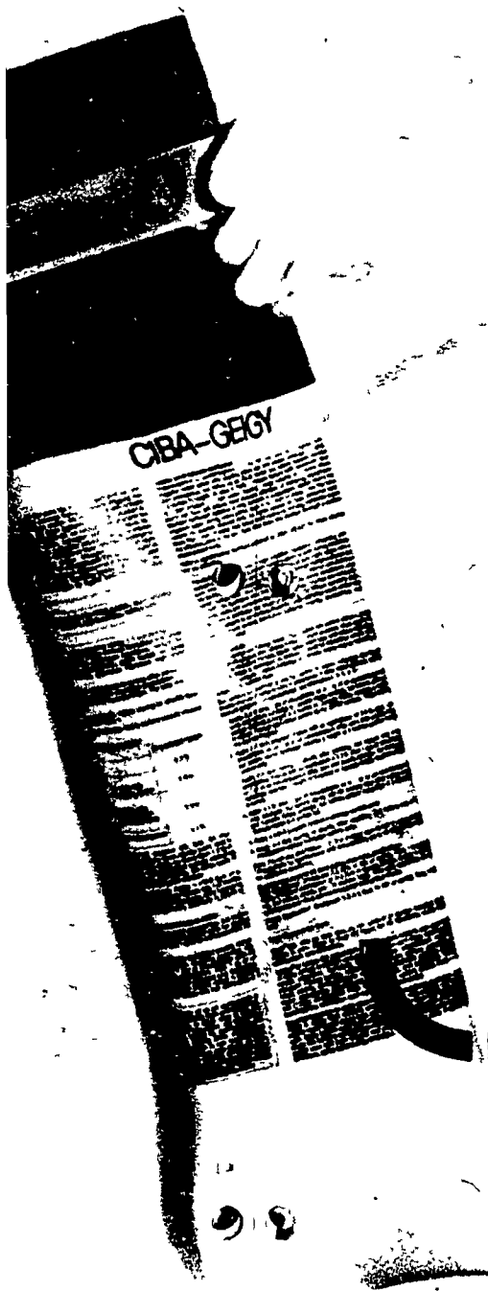

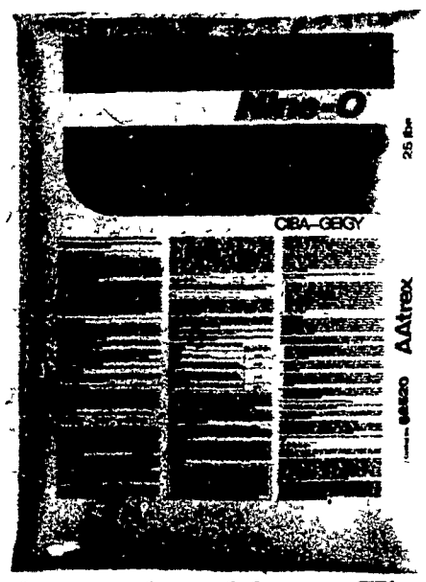

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Montgomery honors outstanding conservation farmer

NORRISTOWN — The Montgomery County Conservation District recognized several individuals for their consistent achievements in soil conservation at their December meeting.

Mr. and Mrs. Levi C. Alderfer, who operate a 115-acre farm in Franconia Township, have installed considerable conservation practices on their farm including grassed waterways, terraces to reduce sheet-type soil erosion from 10 to 2 tons per acre, and many more practices. Alderfers received the award for 1981 Outstanding Conservation Farmer of Montgomery County.

John H. Mack, an earthmoving contractor near Perkiomenville has placed special emphasis in aiding landusers in the construction of soil and water conservation practices. Through his timely efforts, many high quality conservation practices have been constructed in the county. Mack received a Distinguished Service Award for his efforts.

"In the past few years, soil conservation practices have steadily been on the increase in Montgomery County," reports District Conservationist Ed Brzostek. "Farmesr and landusers are becoming more aware of the costly losses caused by top-soil washing off their land.

"Numerous individuals have been doing an excellent job of soil conservation in the County, and although awards were given only to two, many others are to be commended on the fine work they have done," he concluded.

Montgomery County conservation awards were presented by Chairman Duane Clarke, center. Recipients were: left, Mr. and Mrs. Levi C. Alderfer, Outstanding Conservation Farmer; and, right, Mr. and Mrs. John H. Mack, Distinguished Service.

Late small game, deer seasons due

HARRISBURG — Small game and deer hunters will take to the fields and forests for the final times in 1981 when the late small game and archery and flintlock whitetail deer seasons open Saturday, December 26.

Small game species which may be hunted from December 26 through Saturday, January 9, include pheasants of both sexes in northern Pennsylvania, and cottontail rabbits, squirrels and grouse statewide.

Daily and possession limits for the small game species are: pheasants, two and four; cottontail rabbits, four and eight; squirrels, six and twelve; and grouse, two and four.

There will be a seven-day season for hunting snowshoe rabbits (varying hares), opening Saturday, December 26, and closing Saturday, January 2. The daily limit on snowshoes is two, with a season limit of four.

Deer of any age or sex will be available from December 26 to January 2 during the winter archery and flintlock muzzleloader deer season.

Both archers and flintlock hunters will be able to hunt statewide during the winter seasons. The late archery season in recent years has been statewide, but prior to 1979 the flintlock season had been confined to designated publicly-owned lands.

A separate archery license and/or a separate flintlock muzzleloader license, available from county treasurers, local issuing agents and Game Commission field division offices, must be displayed on the regular hunting license during the winter deer seasons.

The only firearms that may be used during the muzzleloader seasons are single barrel flintlock ignition long guns .44 caliber or larger propelling a single ball. Telescopic and peep or aperture sights are prohibited.

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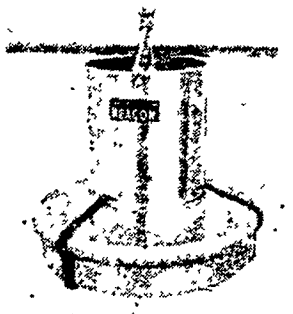

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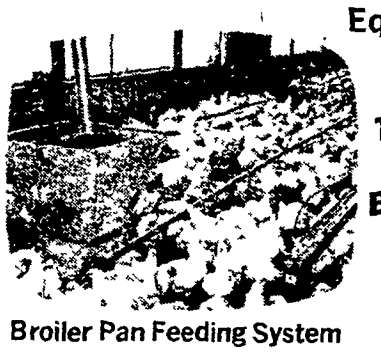

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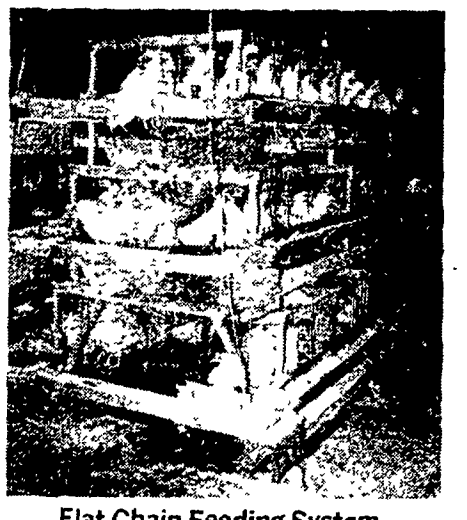

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Ella enters Holstein history; scores 97

BY JOYCE BUPP
Staff Correspondent

AIRVILLE — Northcroft Ella Elevation, world-renowned registered Holstein owned by the George Knight Jr. family, Woodbine Farms, Airville, and Romandale Farms Ltd., Ontario, Canada, added another chapter to her scrapbook of bovine accomplishments.

During herd scoring last Friday, Holstein Association classifier Clarence Cornman, Jr., raised Ella to 97-2E points, adding her name to the less than two dozen cows in Holstein history to achieve this recognition.

A daughter of the popular Round Oak Rag Apple Elevation, Ella was born in 1974. Her dam was Northcroft Ella Arlinda, sired by Pawnee Farms Arlinda Chief, scored 2E-91, with top records to 25,000 milk.

Although she suffered a double abomasum twist shortly after freshening at two years, 9 months, Ella finished her first lactation with 32,802 milk, 1101 fat, in 364 days, and was selected All-American 3-year-old in 1977.

The following year she capped that off with a 1411 fat record, and earned the title of Jr. All-American 4-year-old.

In 1980, Ella took the championships at both the Eastern and Central national shows and earned selection as the All-American Aged cow, the first to unanimously win that award in 16 years.

Through it all she still produced another lactation at 5 yr. 9 mo., 365 days, of 44,143 milk, 1698 fat.

One month ago, at the Royal Winter Agriculture Exposition in Toronto, Ontario, Canada, Ella was selected grand champion and best uddered individual at Canada's largest Holstein show.

Sons of Ella are Select Sires and in the Japan Holstein Breeding Service. Her first daughter at Knights just recently freshened at 1 yr. 11 mo. and scored VG-85.

While few dairy families can experience the raising of one of their animals to the mountaintop score of 97, it was not a first for the Knight family.

Their home-bred Woodbine Ivanhoe Mollie was also scored 97, 4-E, back in the 70's, and collected a myriad of achievements in show winnings, production records, and All-American honors.

According to James Pound, head of classification programs at the Holstein Association's offices in Brattleboro, Vermont, a total of 19 animals in Holstein history have achieved the vaulted 97-point scoring, only two of those were bulls. The first cow ever be scored to 97, was the Wimpy cow in 1963, from Sunny Lee farms owned by Nelson Raider, Wisconsin.

Only eight 97-point females, and no males, are living today.

Angus Assn. records 10 millionth animal at Nat'l Western

ST. JOSEPH, Mo — The grand champion Angus bull of the 1982 National Western Stock Show will officially become the 10 millionth animal recorded in the American Angus Association herd book, reports Dick Spader, association executive vice president.

The bull which is slapped by show judge Jake White for the Angus bull grand championship at Denver will have its registration certificate number changed to "10,000,000". It has long been a tradition to honor a show winning Angus with an even million registration number each time a million cattle have been added to the Herd Book.

The first animal to be so honored with registration number 1,000,000 was Master Prince of Sunbeam, the grand champion bull at the 1947 International Livestock Exposition. The last animal was Sayre Patriot, registration number 9,000,000, the grand champion bull at the 1977 North American International Livestock Exposition.

The growth of the American Angus Association, as measured by total registrations, had nearly all taken place since World War II, when the pent-up demand for beef caused by the war, and the availability of grain for livestock feeding created a large consumer demand for high quality beef.

Demand for Angus cattle began to grow at the same time and more than 90 percent of all cattle recorded in the American Angus Association herd book have been added since the late 1940'.

The American Angus Association was formed in November 1883 and the first Angus were recorded soon after. The first herd book published by the "American Aberdeen-Angus Breeders Association" was printed in 1886 and contained 5,200 entries. Many of the first animals registered in this book were bred in Scotland and imported into the United States.

Several of the famous early Scottish Angus pioneers such as William M' Combie and Hugh Watson are represented in the first U.S. Herd Book. The animal that carries the registration number 1 is Felix of Boghead, a bull owned by A.D. Hudnall of West Las Animal, Colorado, and bred by William McKnight of Boghead, Scotland.

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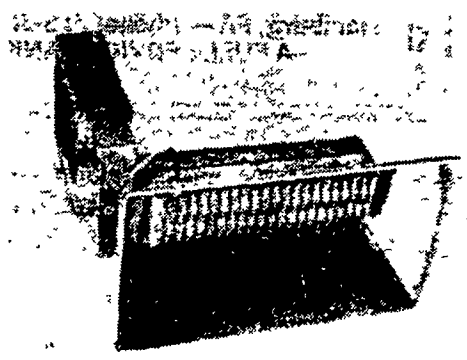

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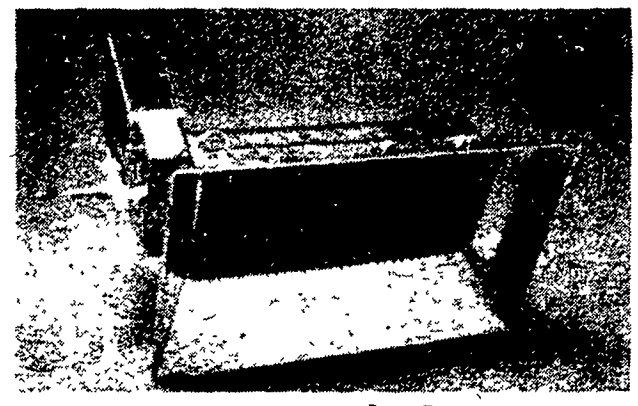

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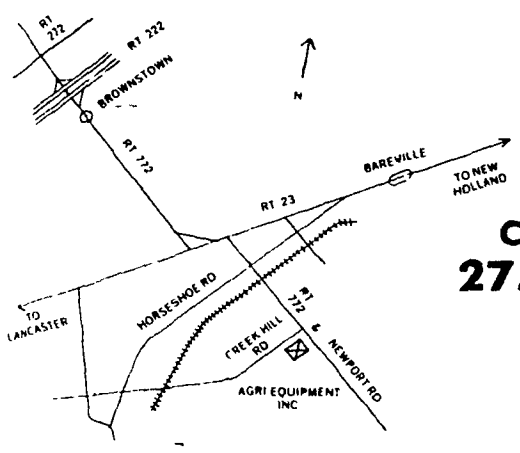

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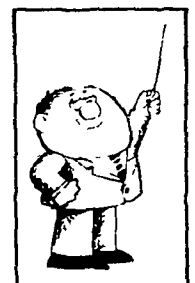

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New egg co-op

(Continued from Page A1)

commitments from producers that will bring the total of birds to 28 million.

"And the owners of another 10 million birds are still considering membership,"

The producers are located in such states as Georgia, Florida, Mississippi and throughout the southern states, as in the case of Cal-Maine.

Seaboard, which has production facilities in Pennsylvania, is also a member. Another Pennsylvania producer, representing a half-million birds, is said to be in the committed category.

To illustrate the size of the co-op, which could number from 18 million to 38 million birds, it can be compared to Lancaster County, the heart of egg production for the state. Lancaster County has about 7.5 million layers.

The co-op, although only a little over a week old, has attracted considerable additional interest in the Commonwealth. Overstreet will be the featured speaker at the January 8 meeting of the Pennsylvania Egg Marketing Association in Lancaster.

The U.S. Egg Marketers is now in the process of recruiting a general manager.

"This is our first order of business," Overstreet said.

"We have several applicants and a committee is now in the process of reviewing them.

"We expect to name a manager and be in business within a couple of weeks."

The main objective of the new co-op is an improved and orderly participation in the export business, according to Overstreet.

"The primary objective is to have a firm committed base of eggs for the export market," Overstreet said.

"We've missed a lot of profitable export sales because we didn't have this firm committed base.

"Each member of the co-op agrees to commit a certain number of eggs to the export market."

Also, the co-op may become involved in the movement of eggs from areas of surplus to areas of dificiency.

"We'd do this with the least disruption to the market place," Overstreet said.

The co-op would continue to participate in the marketing programs of established groups, such as National Egg Company, United Egg Producers and the Northeast Egg Marketing Association.

But if UEP had an export market, the co-op could guarantee a certain number of eggs and the remainder could be secured from UEP members, Overstreet explained.

Overstreet further explained that membership in the co-op requires ownership or operation of a laying house. A person can own a house outright, lease it and operate it or own it and have someone else operate it. The operation can be involved in contract production, but the person must own the house.

Other officers of the U.S. Egg Marketers include Charles Culley, vice president; and E. C. Hughes, treasurer.

Overstreet said he was invited to speak at the January 8 PEMA meeting and will explain the group's objectives and outline the advantages of the co-op to the egg producers.

MILK MARKET NEWS

Federal Order No. 2 November uniform price set at $13.74

Dairy farmers who supplied milk plants regulated under the New York-New Jersey marketing orders during November will be paid on the basis of a uniform price of $13.74 per hundredweight (29.5 cents per quart).

Market Administrator Thomas A. Wilson also stated that the uniform farm price per hundredweight was $13.87 in October 1981 and $13.54 in November 1980.

The seasonal incentive fund returned $2,726,741.01 (including $802,327.81 interest) to the dairy farmer's uniform price for November, or $.328 per hundredweight. The fund was generated by reducing the uniform price during the high-production spring months.

A total of 17,693 dairy farmers supplied the New York-New Jersey Milk Marketing Area with 831,504,000 pounds of milk during November 1981. This was an increase of 3.2 percent (about 26 million pounds) from last year. The gross value to dairy farmers for milk deliveries was $117,241,970.22. Wilson explained that this included differentials required to be paid to dairy farmers but not voluntary premiums or deductions authorized by the farmer.

Regulated milk dealers utilized 382,448,512 pounds of milk for Class I, 46.0 percent of the total. This milk is used for fluid milk products such as homogenized, flavored, low test and skim milks. For November 1981, dealers paid $14.71 per hundrdweight (31.6 cents per quart) for Class I milk compared with $14.32 a year ago.

The balance, 54.0 percent, was used to manufacture Class II products including butter, cheese, ice cream and yogurt. For this milk, handler spaid $12.58 per hundredweight.

The uniform price is based on milk containing 3.5 percent butterfat. For November 1981, a differential of 17.1 cents was applied to the price for each one-tenth of one percent that the milk tested above or below the 3.5 percent standard.

All prices quoted are for bulk tank milk received within the 201-210 mile zone from New York City.

Federal Order No. 4 January Class I price remains the same

Middle Atlantic Order Market Administrator Joseph D. Shine announced a Class I milk price of $15.30 per hundredweight for January 1982.

This price is unchanged from the December price and is also the same as the January 1981 Class I price.

Order No. 4 prices are announced for milk testing 3.5 percent butterfat f.o.b. plants located within 55 miles of Philadelphia and also within 75 miles from the nearer of Washington, DC or Baltimore, MD. There is also a 6-cent direct-delivery differential applicable to producer milk received at plants located within 55 miles of Philadelphia.

Shine announced a Class II milk price of $12.60 per hundredweight for November 1981 and a butterfat differential of 17.1 cents for the month. The Class II milk price is also unchanged from the previous month while the butterfat differential is down two-tenths of a cent.

These class prices are based on the November 1981 Minnesota-Wisconsin manufacturing milk price of $12.52 per hundredweight adjusted to a 3.5 percent butterfat content.

The USDA reported that the wholesale price of Grade A butter at Chicago for November was $1.4888 per pound and the nonfat dry milk price was $.9391 per pound, f.o.b. plants in the Chicago area.

November base drops 8 cents

Middle Atlantic Order Market

(Turn to Page A23)

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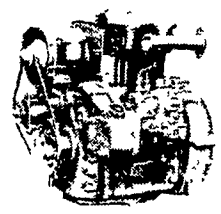

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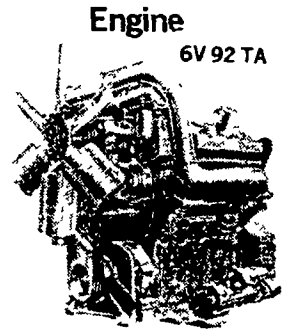

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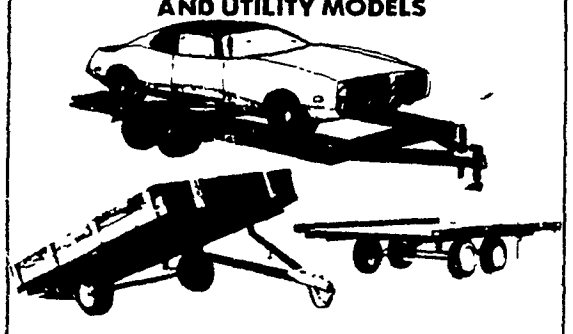

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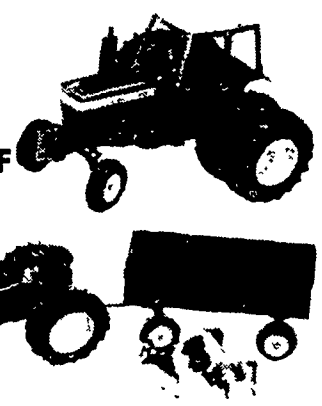

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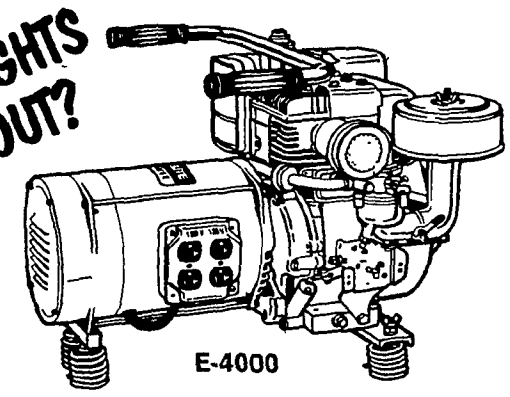

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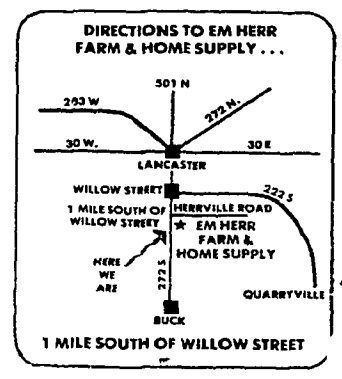

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Pa. Seedsmen honor Beachley, elect 3 directors

LANCASTER — The Pennsylvania Seedsmen's Association elected three directors and honored an industry-pioneer out of its own ranks at the group's annual meeting at the Treadway Inn on Thursday.

Honored for his longtime continuing work on behalf of the state's seed industry was Kenneth G. Beachley, one of the founders of the Beachley-Hardy Seed Co. of Shiremanstown.

Earl Rohrer, of P. L. Rohrer and Brother, Inc., Smoketown, president of the association, presented a plaque to Beachley on behalf of the group.

Beachley, who co-founded the seed company that bears his name more than three decades ago, has been quite active as legsislative representative of the Pennsylvania Seedsmen to help keep other members of the industry abreast of the latest in laws and regulations as they affect the seed industry and agriculture.

Beachley also has been a regular participant in the annual meetings of the American Seed Trade Association to pass along recommendations and suggestions from the state industry to the national group in Washington.

This is the second such honor bestowed by the Pennsylvania Seedsmen. Last year's recipient was Wendell Ditmer.

Elected directors at the annual session were Fred Gaston, of the Stanford Seed Company, of Denver; Henry Reist, of the Reist Seed Company, Mount Joy; and Joe LaTorre, of W. Atlee Burpee Co., of Warminster.

Gaston also serves as secretary of the association and LaTorre was re-elected to the director post.

Featured speaker was Karl K. Kettering, management consultant and motivational speaker, who outlined his six steps to self-motivation — being moved from within.

Directors elected by the Pennsylvania Seedsmen on Thursday include Fred Gaston, left, of Denver; and Henry Reist, of Mount Joy.

"Isn't it a shame that only five percent of the people who look back on their lives can express self-satisfaction," he told the group.

"Only five in 100 can claim to have given life their best shot."

His six steps:

–Opportunity is where we make it; we don't find success, we make it.

–Everyone must establish goals and keep them clearly in mind.

–People must control their attitudes.

–Enthusiasm is one of the most important steps.

–Don't forget good, old-fashioned work. You must put something in to get something out.

–Desire. It's the thing that makes all people equal.

A look ahead to the coming Farm Show was given to the association members by John McCormick. He explained the 15 percent increase in premiums, and the sticker parking plan for exhibitors. Two stickers will be given for each 100 feet of display space.

All seed companies will be located in the same general area under the return to the former layout system.

Another of the speakers was John Zajac, regional vice president of the American Seed Trade Association. He outlined a progress report in five main areas in which the Washington, D.C. association is involved.

The Environmental Protection Agency finally has issued some regulations on the feeding of detreated (Captan) seed corn to cattle and swine. Other areas include PVP, getting standardization of tests to show seed vigor, efforts for an exemption to the seed industry in Farm Labor Contract Registration and implementation of the lawn seed labeling law.

Kenneth G. Beachley, left, receives commemorative plaque from Earl Rohrer, president of the Pennsylvania Seedsmen's Association.

Other speakers at the session included Joe McGahen on the Ag Progress plots and Al Dugan on large field crop farming in the 80's.—DA

Milk Market News

(Continued from Page A22)

Administrator Joseph D. Shine announced a November 1981 base milk price of $13.93 per hundredweight and an excess milk price of $12.47. The November weighted average price was $13.93 and the butterfat differential for the month was 17.1 cents.

The base milk price was down eight cents from October, and the weighted average price also dropped eight cents. The November base milk price was 14 cents higher than last year.

The advertising withholding rate, which is deducted from the base and the excess milk prices but not the weighted average price, was 13 cents a hundredweight and the amount withheld totaled $615,528.60. The gross value of producer milk during November was $65.8 million compared to $63.2 million a year ago.

Shine said that producer milk receipts totaled 473.5 million pounds during November, an increase of 0.7 percent from October, on a daily basis, and up 13.4 million pounds or 2.9 percent from a year ago.

Class I producer milk totaled 234.1 million pounds and accounted for 49.45 percent of total receipts. A year ago Class I producer milk totaled 234.0 million pounds and represented 50.86 percent of total milk receipts. Base milk accounted for 91.36 percent of total November production compared to 90.31 percent last year.

There were 7,112 producers supplying pool handlers in November, a decline of 246 from a year. The average daily delivery per producer was 2,219 pounds for the month, an increase of 11 pounds from October and 135 pounds or 6.5 percent higher than the November 1980 average. The average butterfat test of producer milk increased from 3.72 percent in October to 3.79 in November.

Middle Atlantic order pool handlers reported Class I in-area milk disposition of 198.0 million pounds during November, a drop of 3 percent from a year earlier, after adjustment to eliminate variation due to calendar composition.

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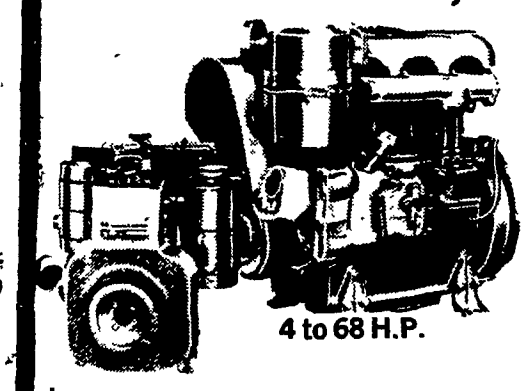

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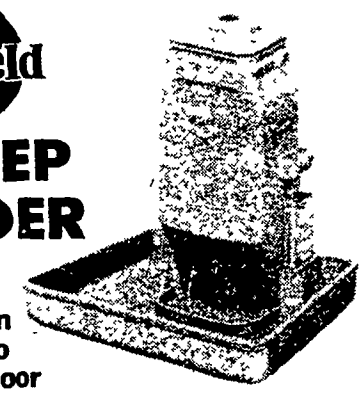

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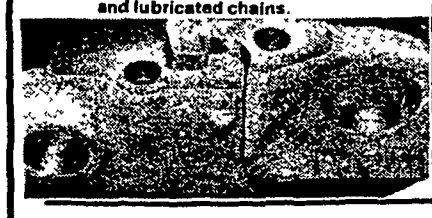

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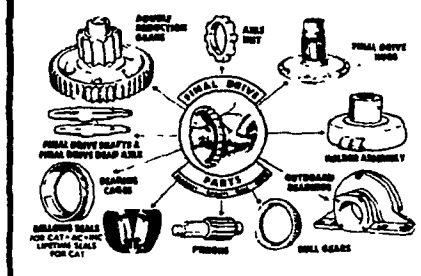

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Ag Arena sale nets $140,000

Penn State receives early Christmas gift

State Secretary of Agriculture, Penrose Hallowell, center, was among the early bidders during the dairy sale as he bid on the first dairy consignment, donated by Obie Snider, foreground, while Deputy Secretary of Agriculture E. Chester Heim looks on.

BY DONNA TOMMELLEO

HARRISBURG — It was a day of sharing — and a day of caring. Hundred of folks shared their livestock with others, last Friday, and cared enough to help Penn State raise $140,000 toward the construction of the new $900,000 Ag Arena.

According to Dr. Milford Heddleson, coordinator of environmental quality affairs in Penn State's College of Agriculture and co-chairman of the fund raising effort, 260 dairy cattle, beef, sheep and swine, plus 45 units of semen and four embryo transplants were consigned to the sale.

"Those consigning animals were asked to donate at least 50 percent of the sale price to the building fund," the co-chairman noted. "The sale grossed about $285,000."

While all consigners had the option to split their sale price with Penn State, many offered their entire proceeds to the cause. And the building fund got a boost from not only Pennsylvanians, but out of state buyers of well, many of whom purchased the top sale animals.

The day began at 11 a.m., marked by a rousing cheer from the Penn State cheerleaders. With the cheerleaders' roar of "Buy that cow!" still ringing in their ears, prospective buyers went to work sending their bids front and center until Charles Backus' gavel rang for the last time. The first consignment sold in the Penn State Ag Arena Sale, Singing Brook Astro Betty, was history.

The 4-year-old Holstein, consigned by sale committeeman Obie Snider, Imler, was purchased by Sankey Crest Farm of Clearfield for $6,100. The Paclamar Astronaut daughter is out of an EX 93 Paclamar Double Triune.

But it was the second Holstein consignment that brought the top price for a single consignment of any species.

Gillbrook Miss Penn State-ET, sold for $18,000 to Jeff and Bill Lipton and Roy Homan of Somers, Connecticut. The 4-month-old ET heifer, sired by either Valiant or Pete, is out of a Very Good Bootmaker. John G. Gilliland of Warriors Mark, consigned the top animal.

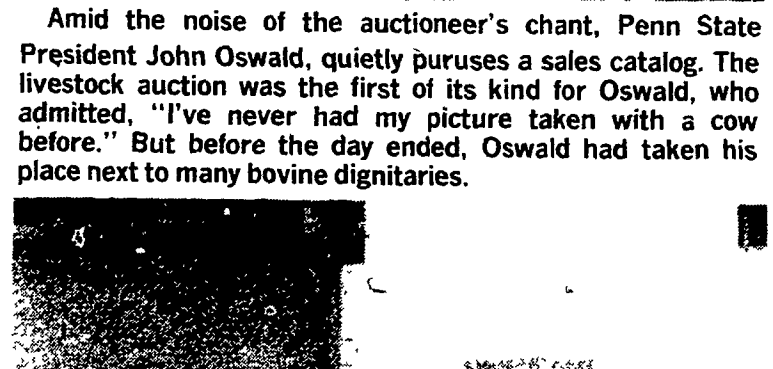
Managed by the Pa. Holstein Association, the dairy sale resembled the party game, "musical chairs," at times, as three auctioneers each took his turn at the historic gavel. Charles Backus of Mexico, New York, yielded his turn to Doty Remsburg of Frederick, Md., who then offered the, gavel to another Maryland auctioneer, John Merryman of Sparks.

When the last bid was taken and the final auctioneer stepped down, the dairy sale grossed $217,800 on 121 animals and 33 units of semen.

Hog buyers took to heart the phrase, "benifit hog sale." Dennis

(Turn to Page A26)

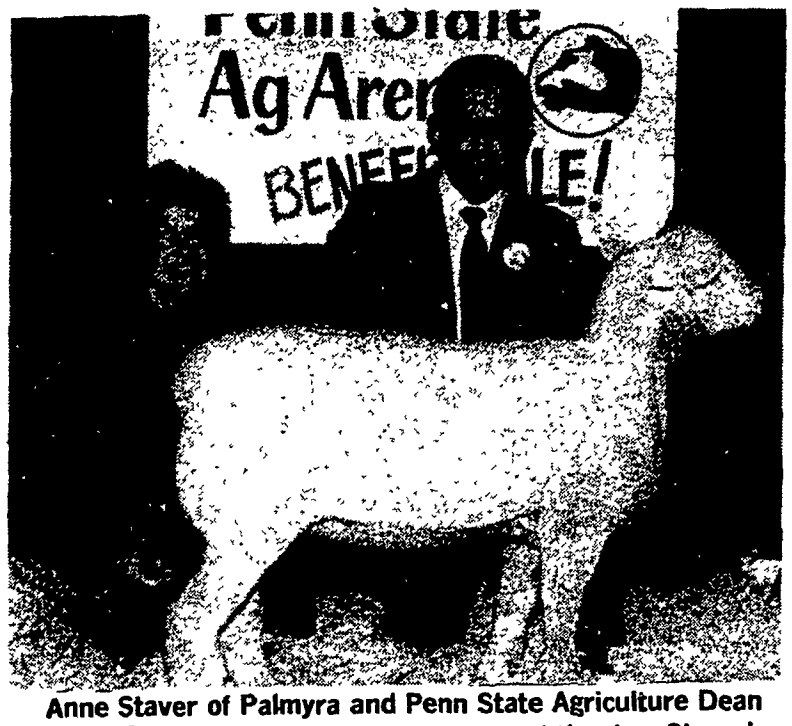
The high-selling consignment, Gill Brook Miss Penn State-ET is surrounded by a host of Penn State supporters. The 4-month-old calf, brought $18,000, the highest price for a single consignment of the entire day. She was consigned by John Gilliland of Warriors Mark and was purchased by Jeff and Bill Lipton and Roy Homan of Somers, Conn.



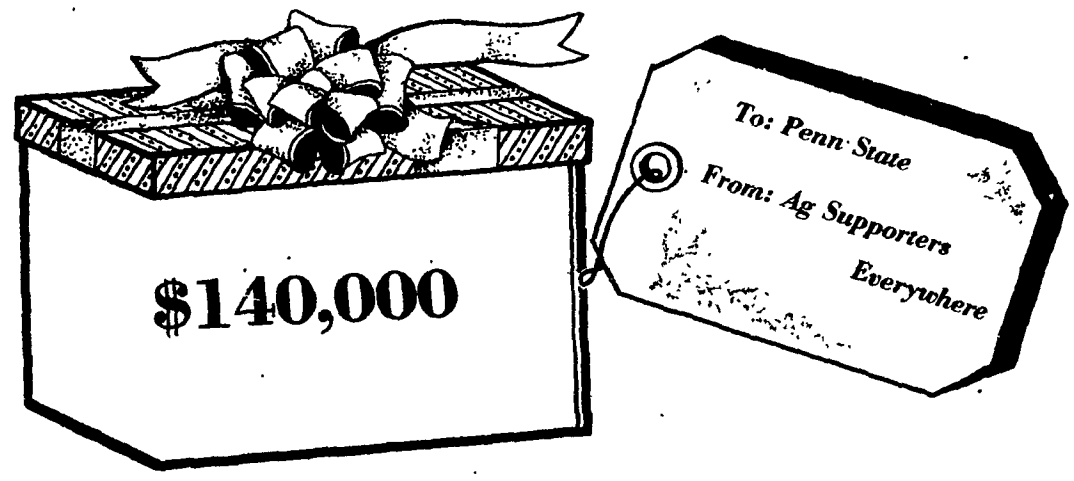
Amid the noise of the auctioneer's chant, Penn State President John Oswald, quietly puruses a sales catalog. The livestock auction was the first of its kind for Oswald, who admitted, "I've never had my picture taken with a cow before." But before the day ended, Oswald had taken his place next to many bovine dignitaries.

The top-selling beef animal in the Penn State Ag Arena Benefit Sale, "SBF Mayflower 026" an Angus consigned by Mr. and Mrs. Robert Kinsley, right, of York, was purchased by Genetics Unlimited, Inc., of West Grove, for $3,000. At left is Samuel Smith, dean of the Penn State College of Agriculture, and second from left, John Oswald, University President.

Jim Evans, left, of Genetics Unlimited, West Grove and Frank Walton, London Grove, carefully scrutinize the list of consignments before the beef sale.



Anne Staver of Palmyra and Penn State Agriculture Dean Samuel Smith set the top-selling sheep of the day. Staver's Dorset ewe sold for $775 to C,J and K Sheep Farm, Ithaca, N.Y.



They've backed up the "Lions" many times, so why not the cattle, sheep and hogs? These four Penn State cheerleaders added to the excitement of the benefit with a cheer before each sale. From left to right the group includes Bill Corman, Sharon Basile, Brenda Murphy and Dave Wright.

The first consignment sold in the Ag Arena Sale, Singing Brook Astro Betty, is surrounded by buyers, consignors and well-wishers, while auctioneers Charles and Horace Backus look on with approval. From left to right the group includes Bill Nichol, Pa. Holstein Assoc. executive secretary, Frank Sankey, buyer, George Foster, Charlene Rohrer, 1981 Pa. Dairy Princess, John Oswald, Penn State President, Samuel Smith, Penn State dean of agriculture, Obie Snider, consignor, and a member of the Penn State Dairy Science Club at halter.

Yes, we have no bananas but we've got plenty of luncheon meat, butter, cheese, and produce. Penn State meats professor John Ziegler offers a five-pound turkey breast to hungry bidders who bought the surplus from the sale luncheon.

This bred Yorkshire gilt, was one of two hogs which brought a sale-high $500. The gilt is backed from left to right by Penn State agriculture dean, Samuel Smith, buyer Harry Bachman, Annville and consigner Leon Arnold, Lebanon.

Hungry buyers and consignors dig into a luncheon buffet donated entirely by several Pennsylvania Agriculture commodity industries.

Ag Arena sale

(Continued from Page A24)

Grumbine of Myerstown consigned only one hog, but before the generous buyers finished, the same hog was purchased and sold again three more times!

In fact, Grumbine's consigment, a bred Berkshire gilt, sold for $300 to Rich Brandt Farm Sales of Reading, who kept her on the auction block.

She was then purchased for $200 by James T. Parlett of Airville who also offered her up for sale again.

She sold for a third and final time to Glenn Tothero of Mohnton for $175 or a grand total of $675.

A bred Yorkshire gilt and an 11-month-old Yorkshire boar each brought $500 for the sale high. The gilt, consigned by Leon Arnold of Lebanon was purchased by auctioneer Harry Bachman of Annville.

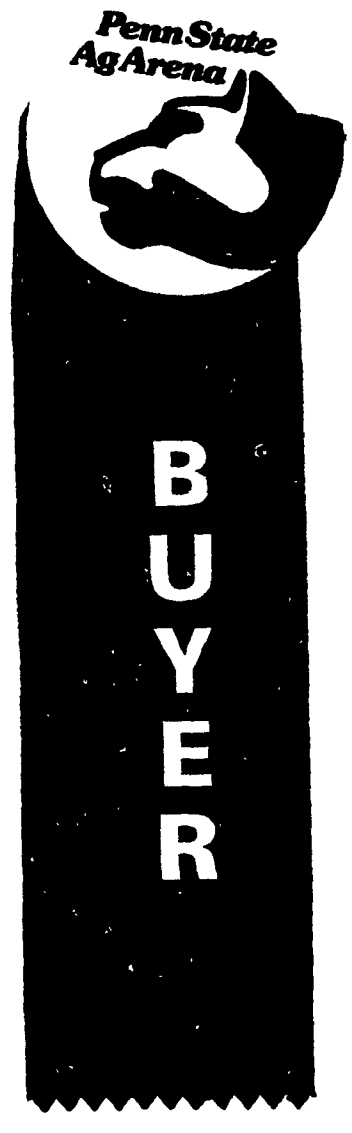
Penn State consigned the top boar which sold to C. Eugene Wingert of St. Thomas. The 55 head of swine sold for $10,240.

The beef sale was capped by an $11,000 bid on an Angus embryo consigned by Penn State and purchased by Harmony Hill Farm of Northwood, New Hampshire. The embryo, due in June 1982, is sired by Continental, Reserve Grand Champion Bull at the recent National Angus Show in Louisville, Ky. The dam is PS Mentieth Blanche 205, dam of PS Power Play, Supreme Champion at the All American Angus Futurity in 1979.

The high sale for an on-foot beef animal was $3,000 for an Angus cow consigned by South Branch Farms of York. The cow, SBF Mayflower 026, was purchased by Genetics Unlimited, Inc., of West Grove. Her sire, Sayre Dynamo 441G, is the senior herd sire at South Branch Farms, and has sired the winning Get of Sire two years in a row at the Maryland State Fair and the Pennsylvania Farm Show.

The beef sale offerd Angus, Charolais, Chianina, Limousin, Polled Hereford, Simmental and Belted Galloway breeds. When Georgia auctioneer Mike Jones' gavel fell for the final time, the 51 head of cattle, four embryo transplants and 12 units of semen, brought $56,955.

The sheep sale, although scheduled toward the end of the day, began with no less enthusiasm. The Penn State cheerleaders pumped the crowd with a resounding, "Short Yell Sheep!" and the sale was underway.



Erskine Cash, left, of Centre Hall purchased the top-selling Simmental for $1,375. The heifer, an Abricot daughter out of a Galant dam, was consigned by Rolling Ridge Farms of Karns City. At the halter is Rolling Ridge manager Charles Rynd.

West Chester auctioneer Ken Brubaker took bids on Cheviot, Dorset, Merino, Suffolk, Hampshire, Shropshire, Southdown and even herd and guard dogs.

The top-selling sheep, a Dorset yearling ewe, consigned by Kenneth and Anne. Staver of Palmyra, sold for $775 to C,J and K Sheep Farm of Ithaca, N.Y.

The 33 head of sheep and three sheep dogs brought $4,785.

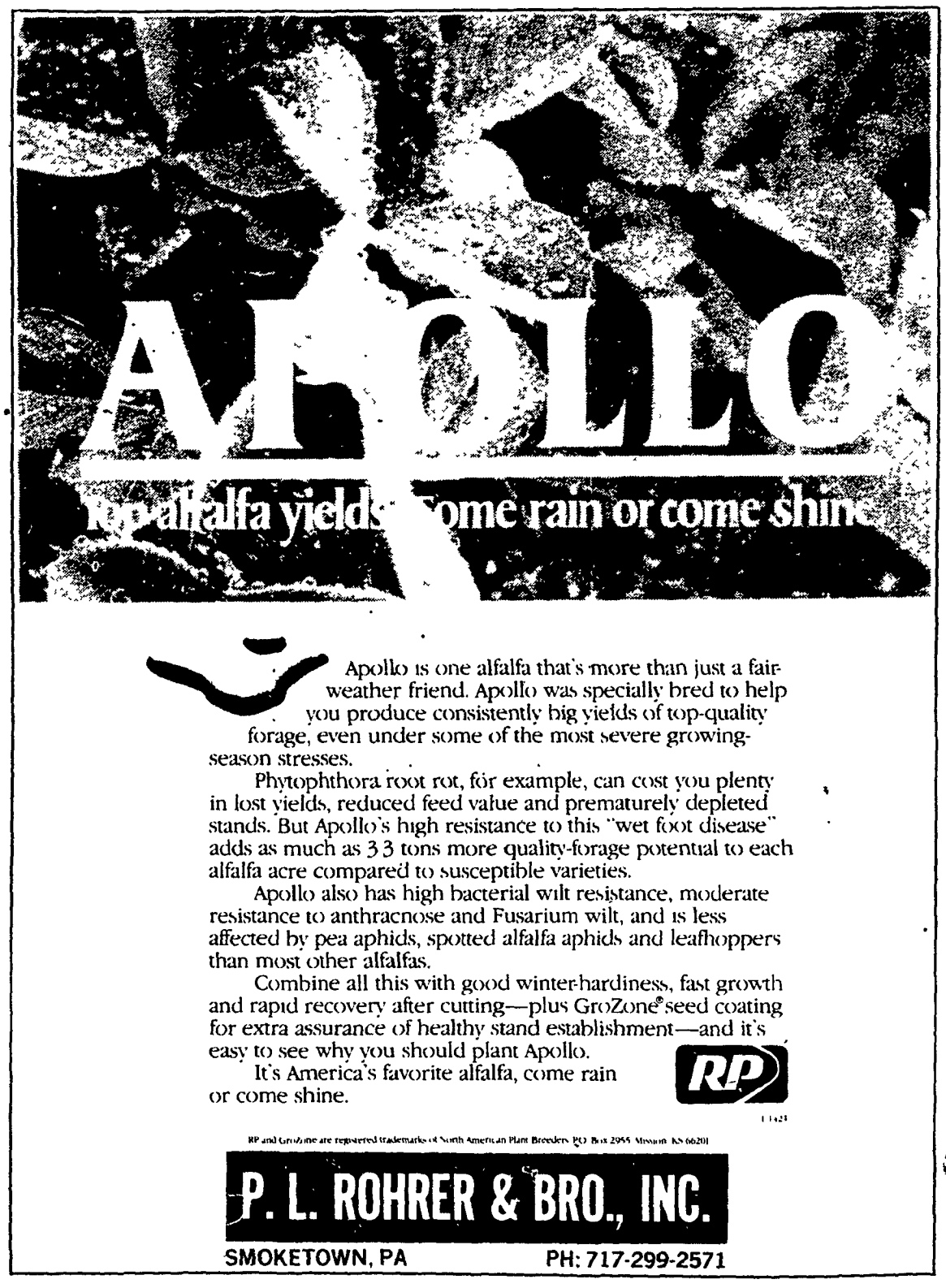
Buyers, consigners and guests were treated to a delicious luncheon buffet donated by several Pennsyvania commodity industries.

In fact, the sale committee held one more sale which was not listed in any of the catalogs. Penn State meats professor John Ziegler announced there was a large surplus of food from the luncheon and a quick dispersal was held.

Cheese blocks, chicken and turkey rolls as well as a host of produce were sold at veritable steals.

Penn State supporters, last week, bought with their head, heart and yes, even stomachs as no stone was left unturned.

The chicken roll and cheese may be gone in a week and even the top consignments won't last forever. But the generous supporters that contributed to the historic sale now have a stake in the 19,000-square-feet Penn State Ag Arena, which should serve generations of agricultural students for a long time.



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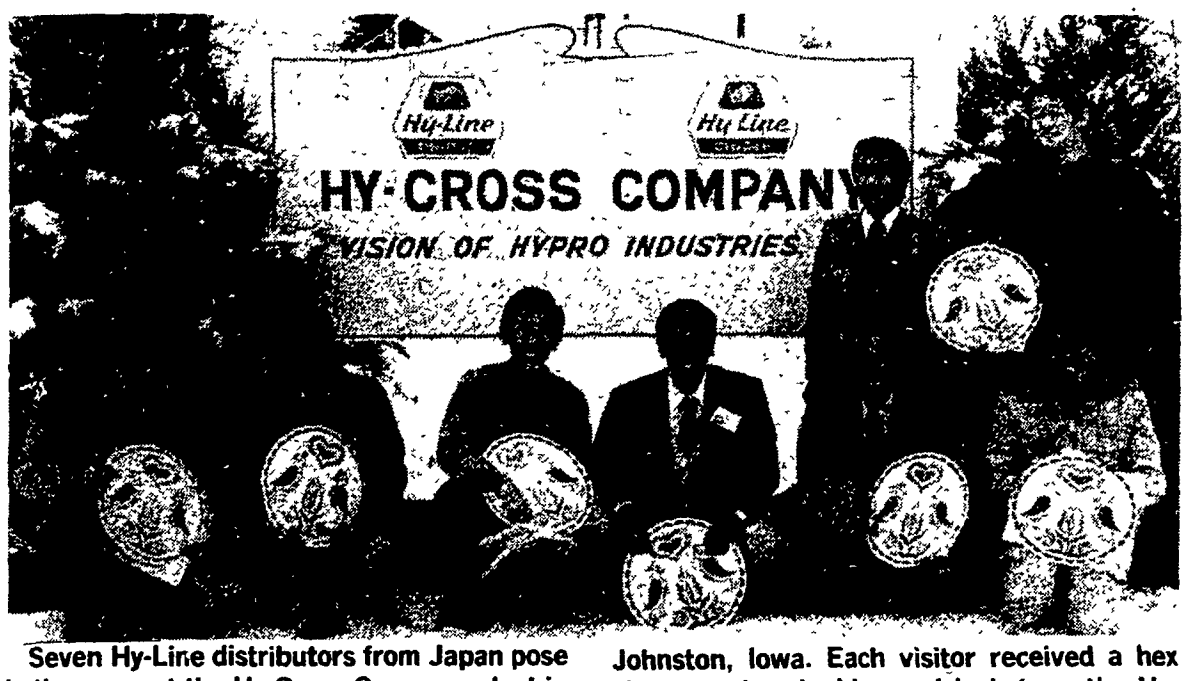


Seven Hy-Line distributors from Japan pose in the snow at the Hy-Cross Company plant in Lititz. With them is Fritz Garloff, left, from Johnston, Iowa. Each visitor received a hex sign meaning double good luck from the Hy-Cross Company.

The Hy-Cross plant hatched brown chicks for the first time, Tuesday, when the Japanese distributors visited.

Foreign Hy-Line distributors visit County

BY DEBBIE KOONTZ

LANCASTER — Seven Hi-Line distributors from Japan visited Hy-Cross' new plant in Lititz, Tuesday, as part of a day-long visit in the County.

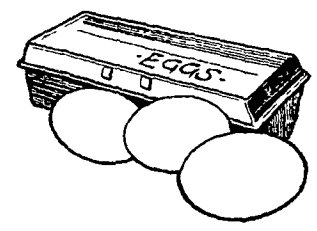
Hy-Cross, a division of Hypro Industries and a distributor for the Hy-Line Company, just opened their doors in mid-November and is producing a whopping 100,000 chicks a week.

Of special interest to the foreign distributors was the hatchery's nine incubators, each able to hold 78,000 eggs. The day they visited was actually the first day that the plant hatched brown eggs.

Also on the agenda for their day in Lancaster County was a visit to a Pennfield pullet house and layer house, and a tour of the Pennfield egg processing plant in Schoeneck.

Other stops on the schedule include Minnesota, California, and New York.

Participating on the tour were: Fritz Garloff, salesman for the Hy-Line International Division in Johnston, Iowa; Mr. Adachi from Ibaragi near Fukushima; Mr. Watanabe from Chiba near Tokyo; Mr. Ueno, Mr. Ikubo and Mr. Tokoro from Hydeo, Gifu; Mr. Shibata and Mr. Tanaka from Yamagata.



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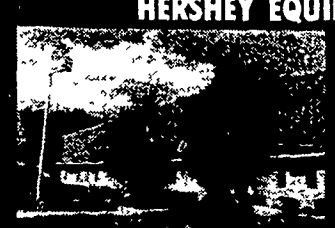

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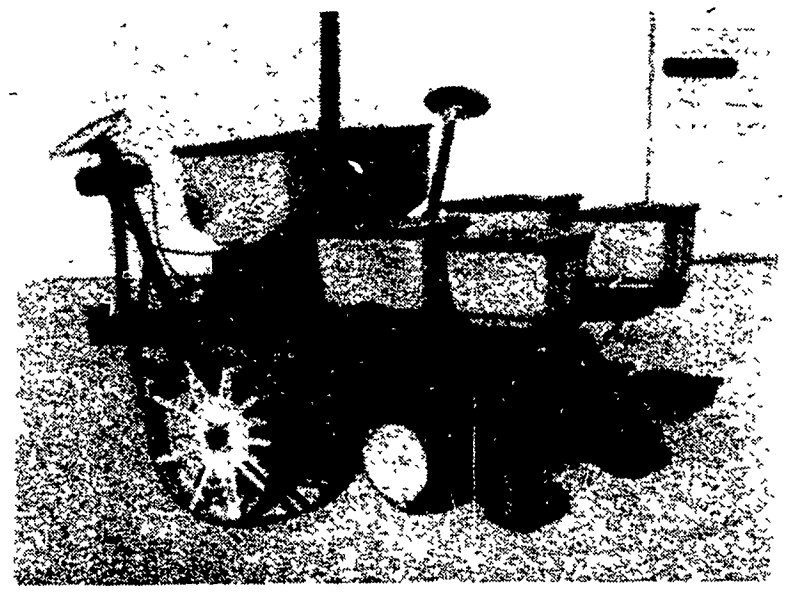

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Good breeding, feeding are keys to DVC dairy herds

By Ann Miller

DOYLESTOWN — In 1973, under the supervision of James Mc Caffree, the Delaware Valley College registered Holstein herd mixed with a few Brown Swiss climbed to the top of the Bucks Co. DHIA with a herd average of 16,665 pounds of milk and 680 pounds of fat. Their registered Holstein herd has remained number one in the county since that time.

In the years that followed, the college added registered Ayrshires and began testing the three breeds separately, laying the groundwork for even better within-breed herd management.

Remarkably, in 1981, not only was the DVC Holstein herd number one in milk and fat with 20,579 pounds of milk and 742 pounds of fat but their Brown swiss herd was second in fat in the county and the top small Brown Swiss DHIA herd in the state in both milk and fat with 17,073 pounds of milk and 740 pounds of fat.

The DVC herd was started on DHIA testing before 1945. Richard Smith, a DVC 1968 graduate, took over as superintendent of the herd in the late 1960s. He conquered mastitis, breeding, and feeding problems and laid the ground work for excellence in the breeding and feeding programs. Smith heavily used Osborndale Ivanhoe and Greyview Skyliner in the Holstein herd. Later, under the management of James McCaffree, Round Oak Rag Apple Elevation had a big impact when used on the Ivanhoe daughters and granddaughters.

Presently, the DVC herds are being managed by James Harner who has continued the breeding program with selected sires. Holstein first-calf heifers are coming to milk with good type and production sired by Marvex, Jet Stream, and Jerry.

Student participation on breeding program research influences the selection of service sires. The DVC breeding program objectives include using top bulls in the country to improve butterfat, production and sound, functional type. The present new herd replacements are offspring of Jemini, Creek, Milestone, Sooner, Elmer, and Valiant.

In April 1981, the Ayrshire herd was awarded a trophy by the National Ayrshire Breeders Ass'n. for having the highest milk production for Ayrshire herds of 5 - 14 cows. The DVC Ayrshire herd average 16,828 pounds of 4 percent milk in 305 days and was the third highest Ayrshire herd in the nation regardless of herd size.

The foundation Ayrshire cows were donated in the early 1970s from Rolling Hill Farm, Laneway Farm, Va., Pine Lake Farm, N.Y., Reidina Farm, Ardrossan Farm, Crystal Spring Farm, N.H., Delchester Farm, and Meredith Farm, Ma. Albi, Hi-Kick, and Commander Star have been the dominant sires used in recent years.

Approximately 60 percent of the A.I. duties are shared by herdsmen David Douglass and Larry Queripel. The remaining 40 percent is handled by local A.I. technicians. The younger cows are bred back about 60 days after calving, however the older, heavier producing cows are bred closer to 90 days post calving.

Harner contributes much of the DVC dairy herd's success to the feeding program. All forage is tested to provide a balanced ration for each individual cow. Each cow gets separately weighed amounts of Agway 32 percent Pro-Right grain and high moisture corn in accordance to the cow's stage of lactation and production needs. Grain is fed three times daily. Corn silage is fed in the morning, alfalfa haylage is fed at noon and hay is fed in the evening. Harner attributes the successful production of the herds to the production of quality forages, managed by Larry Hepner and George Gross.

The DVC dairy is maintained for the purpose of teaching with the philosophy that the students should work with the best quality dairy cattle. The success of the dairy program depends on the input of many people. The daily tasks could not be completed satisfactorily without the help of the students, many of whom arrive with no dairy experience.

Freshmen and sophomores at the college have courses in basic sciences. The dairy science juniors learn management with emphasis on dairy techniques for success, which stresses skills in animal health including injections, dehorning, calving assistance, and culture work to determine types of mastitis. Students also learn the basics of feeding, milking and proper record keeping.

Each Senior has the opportunity to select a recently fresh cow and develop her individual feeding program by balancing the amount of grain, forages and supplements for three months of her lactation to maximize income over feed costs. This year, the Senior class has been experimenting with amounts of buffers (magnesiumoxide and sodium bicarbonate) to add to the grain and will be recording its effects on butterfat yield.

DVC has an excellent calf raising record with a 95 percent success rate. Someone always tries to be in attendance at calving time.

The calf is fed two quarts of the dam's colostrum immediately and is maintained on colostrum milk for 5 to 6 feedings. Calves are raised from day one to three-months in individual calf hutches. They are fed whole fresh milk in the quantity of 10 percent of their body weight per day until they are weaned at 8 to 12 weeks.

At three months, they are moved to inside group pens housing two to five calves each. They are fed Agway T.C.R. (Total Complete Ration) along with hay until 10 to 12 months of age, at which time they are taken off grain, moved to a different barn with an outside exercise lot and fed hay and silage. They are kept on this no grain feeding program until 2 weeks before they freshen at an age of 25 to 26 months.

The excellent calf raising record enables DVC to participate in selling of animals for breeding stock. Most animals sold go as bred heifers, but occasionally they will sell an open heifer or a milking cow.

Most animals culled are removed from the herd for breeding and health reasons. Other culling, Harner explains is necessary due to limited space available. Careful consideration is given to the value of the cow with respect to the depth of the pedigree, the cows production and functional type when determining those to be culled.

DVC consigns occasionally to sales. A DVC Astro Annabelle daughter sired by Monitor was sold in the 1979 Pennsylvania Holstein State Convention Sale for $6,000.

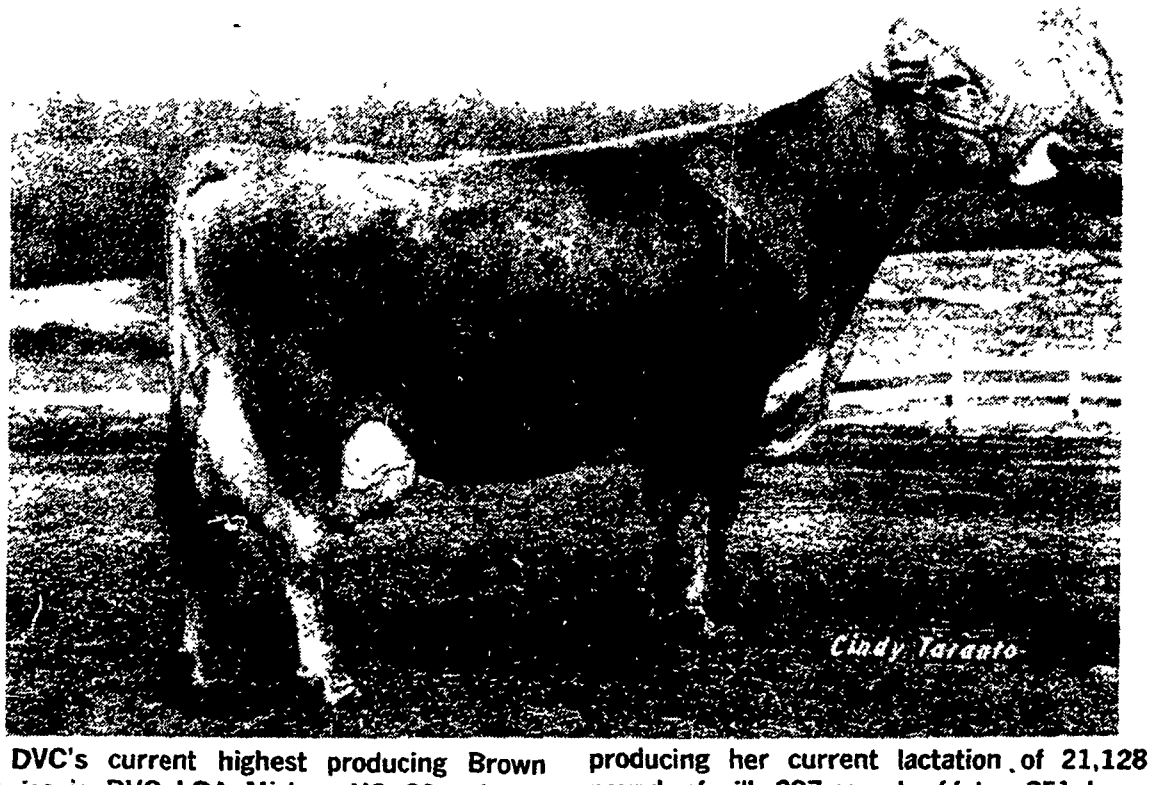
One of the reasons DVC keeps topping the county DHIA is that 5 of their Holsteins produced over 30,000 pounds milk, 2 of these were first and second in the county for milk during 1981. DVC Capsule Duchess produced at 6.3 years - 305 days - 31264M - 934F and in 365 days - 35040M - 1067F. Their second highest cow as DVC Astro Annabelle 2 E 91 who produced at 8.0 years - 305 days - 30332M - 1015F and in 365 days - 33877M - 1146F.

DVC's current highest producing Brown Swiss in DVC LOA Mickey, VG 88, who produced at 8.0 years - 305 days - 19596M - 922F and to date

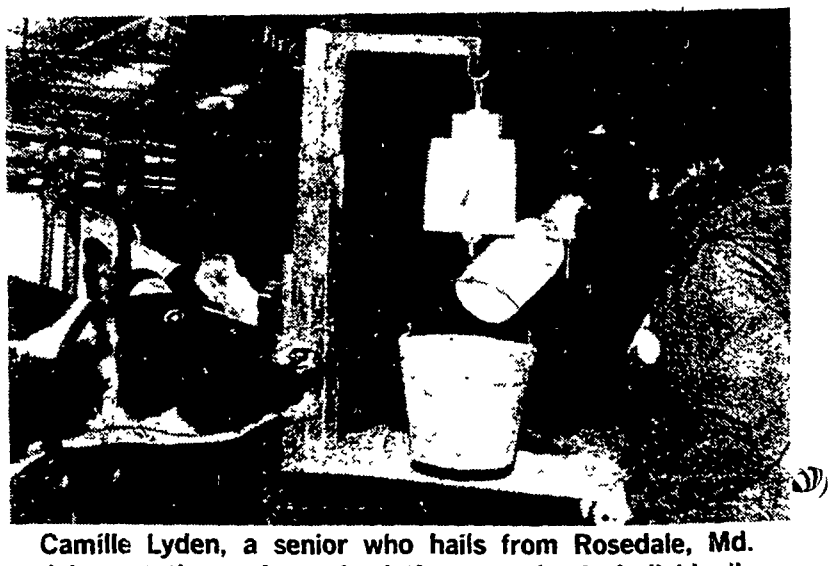
(Turn to Page A30)

DVC barn complex is the home of the highest producing herd in Bucks Co., a title they have held for 9 consecutive years.

James Harner, superintendent, left, and John Plummer, chairman of Dairy Husbandry, right, point out the excellence in mammary of this EX aged Holstein. Both Harner and Plummer are also part of the dairy husbandry faculty at DVC.



DVC's current highest producing Brown Swiss is DVC LOA Mickey, VG 88, who is producing her current lactation of 21,128 pounds of milk, 997 pounds of fat on 351 days.



Camille Lyden, a senior who hails from Rosedale, Md. weighs out the grain to feed the cow she is individually managing for a year.

Maysin has potential to control corn earworm

ATLANTA, Ga. — A U.S. Department of Agriculture geneticist reported today that maysin, a compound found in small amounts in corn, has the potential to retard the growth and development of the corn earworm, the insect pest that destroyed 140 million bushels of corn last year.

Speaking at the American Society of Agronomy meeting here, Neil W. Widstrom with USDA's Agricultural Research Service, said that "crosses between certain corns which yield plants with high maysin content may help to provide a basis for developing hybrids with levels of maysin that cause reductions in earworm population."

"Even though silks of different corns vary greatly in their relative maysin content, some exceeding others by ten times or more, the variability suggests that selection for increased levels of this growth retarding factor can be expected to be effective," he said.

However, he cautioned that estimates of genetic variation indicate that about one-half of the existing variation is of a type not easily utilized in a system of recurring selection. "This merely means," he added, "that a simple type of inheritance does not appear to be the most probable type controlling the level of maysin in corn silks."

Widstrom, headquartered at the ARS Southern Grain Insects Research Laboratory in Tifton, Ga., worked with entomologists Billy R. Wiseman and William W. McMillian, also of the laboratory, and Western Regional Research Center chemists Carl A. Elliger and Anthony C. Waiss, Jr., of Berkeley, Calif.

Potassium affects alfalfa's protein content

ATLANTA, Ga. — The nutrient element potassium is critical to maximum yields of alfalfa. An Ohio study over the past 3 years has revealed that potassium deficiency not only reduces the total yield of alfalfa, but may also affect the nutritive value of the forage.

A. L. Barta, research agronomist at the Ohio Agricultural Research and Development Center, Wooster, reported results of his studies during the annual meeting of the American Society of Agronomy.

Barta said that his experiments showed that potassium affects the ability of alfalfa roots to utilize nitrogen from the air. This has a direct effect on protein content, the major reason alfalfa is such a valuable feedstuff for livestock (especially dairy cattle).

The Ohio studies showed that potassium deficiency significantly reduced both the rate of regrowth of alfalfa after harvest and the rate of nitrogen fixation. It is believed that the rate of nitrogen fixation is limited by the supply of sugars produced by photosynthesis in the leaves and transported to the nodules on the roots.

Barta reported that potassium appeared to stimulate the movement of the sugars produced in the shoot to the roots where they are utilized by Rhizobium bacteria in the nodules to increase nitrogen fixation. The stimulation was most obvious during regrowth of alfalfa after cutting.

Barta said the research emphasized the importance of maintaining adequate levels of potassium in the soil for high alfalfa yields. He emphasized that annual alfalfa production of 10 tons per acre requires more than 400 pounds of potassium. Farmers who depend on alfalfa for high-protein feed should make certain soil fertility is adequate by testing the soil and applying potassium and other elements that may be in short supply.

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Computer Controlled Dairy Feeding System

SUMMARY

Cow #	# Feed Programmed	# Feed Consumed	Ration Fed To This Cow
001	20	20	A
002	10	10	A
003	3	3	A
004	25	25	B
005	17	17	A

TOTAL FEED - 00075

The cow number, feed quantity and choice of rations are entered on a keyboard. The computer looks at a tag permanently fastened to the cows ID rope and will allow her to eat ½ of this each 12 hr. period.* At the end of each 12-hour period, the computer will record on tape the consumption of each animal programmed. *Other time intervals available.

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I'M NOT LION...
The Classified Livestock Section Has Beastly Selections!

What You Should Know About Swine Health

by Glenn Shirk
Lancaster Extension Agent

(Editor's note - This is the third article in a series on swine health)

The selection of new herd boars should begin far enough before the start of breeding to allow for proper isolation and retesting of new boars as well as fenceline contact with the sow herd, reports Matthew J. Parsons, Penn State Extension swine specialist.

Prior to selection of a boar or group of boars, herds with adequate health standards must be identified as potential sources. Sources of boars can be divided into three risk categories based on health programs.

Validated (brucellosis free), qualified (pseudorabies free) closed herds are generally the lowest disease risk. These herds may be completely closed and only bring in new genetic material through artificial insemination, or a modified closed herd that brings in only a few animals and follows strict isolation and retesting procedures. These are low risk herds because of the care taken in introducing new animals that may carry a disease problem and because of the quarterly testing for pseudorabies and brucellosis.

Herds that follow a poorly defined isolation procedure and test only sale animals are a higher disease risk. The purchaser of boars may not know the disease status of this type of herd upon selection of a boar. High risk sources include breeders with on health or isolation program, breeders that allow boar buyers into the boar pens and stockyards. Boars that have been exposed to other pigs of questionable disease status (such as at the stockyards) or organisma from other pigs (such as from a boar buyer being in the pen) have a higher risk of carrying some disease problem.

In purchasing boars, the buyer should make a selection from a herd with a sound herd health program. Most producers seek boars from the low to medium risk catagories. The herd selected should be free of pseudorabies, brucellosis, swine dysentary and haemophilus pneumonia. It is highly desirable if the herd has not had TGE in the last year, too.

Once the herd or herds for purchasing boars from has been identified, then a timetable can be developed. This timetable must include adequate time for testing (if needed), isolation, retesting and fenceline contact of new boars. If proper isolation and testing procedures are followed to minimize the risk of importing disease problems into a herd, approximately sixty days will be needed from the time one sets out to purchase a new boar until the boar starts to breed.

Newly purchased boars should be isolated by penning them in a separate pen that is physically separated by some distance from other hog pens. There should be as little traffic as possible from the isolation pen to other hogs; preferably, a separate set of boots and coveralls should be kept at the isolation area to be used when caring for the isolated pig or pigs. Precautions should be taken to minimize pet and wild animal traffic through the isolation area.

At the end of a 15 to 30 day isolation period, a blood sample for a pseudorabies test should be obtained. Pigs that were negative for pseudorabies before isolation may become positive during the isolation period. This indicates that the pig had been exposed to pseudorabies, but that not enough time had elapsed by the start of the isolation period for the pig to develop any signs of the disease.

Pigs having a positive pseudorabies test at the end of the isolation period should be shipped to slaughter. If the boar has a negative pseudorabies test he can then be removed from isolation and exposed to fenceline contact with gilts or sows.

BOAR BUYER TIMETABLE

Day Prebreeding	
0	Start Breeding
14	Expose to Fenceline Contact or Cross-contaminate with fecal material
21	Retest for Pseudorabies
21-51	Isolate boar
58	Test boar for Pseudorabies and Brucellosis (not necessary if the boar is from a Qualified, Validated herd)
60	Select boar to be purchased

MAES researchers get broiler grant

COLLEGE PARK, Md. — Two research scientists for the Maryland Agricultural Experiment Station are the recipients of a $6,600 grant from the Delmarva Poultry Industry Inc. to study feed and environmental requirements of broiler breeding stock.

The two researchers — both members of the faculty of the Department of Poultry Science at the University of Maryland, College Park — are Mary Ann Ottinger, assistant professor of physiology, and Joseph H. Soares Jr., professor of nutrition.

The study is an extension of an earlier project funded by DPI and will continue Ottinger's and Soares' examination of the effect of feed intake and social environment on reproduction, behavior and the endocrine status of the broiler breeder.

"A limited amount of information is available regarding the physiological and metabolic state required for optimal reproduction in meat-producing strains of chickens," say the researchers. "Broiler production in the Delmarva peninsula has continually increased, putting increasing demand on the reproductive capability of the broiler breeder."

Also participating in funding of this research is MSD Agvet, a division of Merck & Co.

DVC Albi Polka EX 90 is the cornerstone of the Ayrshire herd. This top cow produced 21,146 pounds of milk and 799 pounds of fat this past year.

DVC dairy herd

(Continued from Page A28)

351 days - 21128M - 997F. One of the top Ayrshire individuals is DVC Flashy Jubilee, VG89, with a production record at 5.4 years - 365 days - 23930M - 951F.

Thirty percent of the milk produced by the dairy herds is pasteurized on the premises and consumed by those of the 1375 full-time students that take meals on campus. The remainder of the milk is sold to Quaker Maid.

The Holstein herd was just reclassified Dec. 1981 with 4-EX, 15-VG, 18-G+, 6-G and is pending a new Breeding Analysis Average of 104.1.

The Brown Swiss herd was classified in Oct. 1980 with 5-VG, 4-G+ and an average herd score of 84.8. The Ayrshires which are now all DVC bred were last classified in July 1981 with 1-EX, 6-VG, 2-G+ for a herd average classification score of 83.

DVC attends a limited number of shows. They exhibit at the county fair (Middletown Grange Fair) where they consistently place well. They show a few Holsteins in tough competition at the Holstein Eastern Pa. Championship Show held at Kutztown and sent 4 from each of the three breeds to the 1981 Farm Show where their Ayrshire aged cow, DVC Albi Polka E 90 placed second with first mammary in her class. Four year old Brown Swiss, DVC Delegate Lyric placed first in her class and DVC won the Brown Swiss Premier Breeder's Trophy.

DVC presently has 4 Holstein bulls in sire services, all in waiting. Two are at Carnation Genetics and two are at Atlantic.

Harner says his aims for the future of the DVC herds are to continue to use the top TPI (Type Production Index) bulls in the country. He plans to continue improvement of good functional type particularly in feet and legs and improved excellence in mammary conformation. He is striving to increase depth of pedigree and to continue to increase in milk production.

These goals are an essential part of teaching of the students as the varied classes use the dairy facilities, to learn sound, progressive but practical dairy science management.

★ A Christmas Message ★
REMEMBER REAL AMERICA?

YOU'RE OLD ENOUGH to remember the real America if you remember when you never dreamed our country could ever lose. When you left the front door open. When you went to church and found spiritual consolation. When people know what the Fourth of July stood for. When you took it for granted that women and the elderly and the clergy to be respected. When a girl was considered daring if she smoked in public. When a girl was a girl. When a boy was a boy. When they liked each other. When you didn't feel embarrassed to say that this is the best country in the world. When socialist was a dirty word. When liberal wasn't. When a nickel was worth five cents and could buy you a magazine, or a good cigar, or a 12-ounce soda pop, or a big ice cream cone with chocolate sprinkles. When two nickles got you into the movies on Saturday afternoon, and you saw three pictures. When taxes were only a nuisance.

When the poor were too proud to take charity. When you weren't afraid to go out at night. When Protestants and Catholics thought enough of their beliefs to argue about them. When ghettos were neighborhoods. When you knew that the law meant justice, and you felt a little shiver of awe at the sight of a policeman. When young fellows tried to join the army or the navy. When songs had a tune. When you wrote love notes. When criminals went to jail. When you could get away from it for a while. When you bragged about your state and your home town. When politicians proclaimed their patriotism. When clerks and repairmen tried to please you, or else. When a Sunday drive was an adventure, not an ordeal. When you had to be brave to fly. When you could always find someone willing and able, whenever you wanted something done. When riots were unthinkable. When the clergy talked about religion. When you took it for granted that the law would be enforced, and your safety protected. ***When Christmas was merry, and Christ was kept in it.***

When the flag was a sacred symbol. When our government stood up for America, anywhere in the world. When a man who went wrong was blamed, not his mother's nursing habits or his father's income.

When everyone knew the difference between right and wrong, even Harvard professors. When things weren't perfect, but you never expected them to be. When you weren't made to feel guilty for enjoying dialect comedy. When people still had the capacity for indignation. When you considered yourself lucky to have a good job. When you were proud to have one. When sick meant you weren't feeling well. When a complaint could accomplish something. When people expected less, and valued what they had more. When everybody wasn't entitled to a college education. When college kids swallowed goldfish, not acid.

When America was the land of the free, the home of the brave — and rightly so!

The Real America appeared initially in material released by The Conservative Book Club and is reprinted by EECO, Inc., 4021 N 6th Street, Harrisburg, Penna 17110 as a tribute to Americans who believe that:

Jesus Christ, the Virgin born son of God, is the hope of the world and that there is no other name under heaven whereby we must be saved.

If you believe in saving America, say so; not everyone does!

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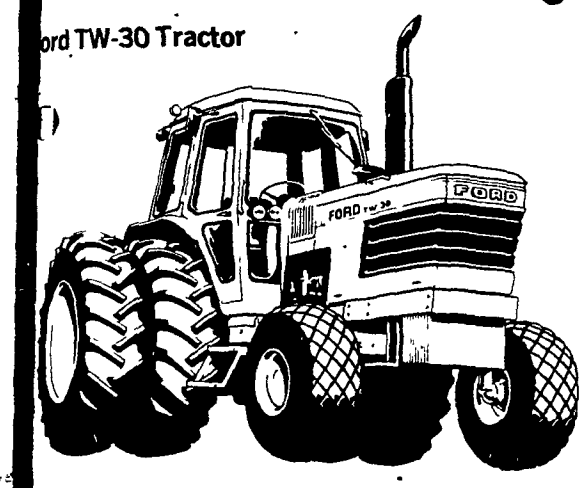

TW MODELS

$2500 plus Waiver of Finance Charges for eligible customers with a "Use Date" of March 1, 1982

SERIES 1000 TRACTORS

Model	Amount
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1200	$175
1300	$200
1500	$200
1700	$250
1900	$350

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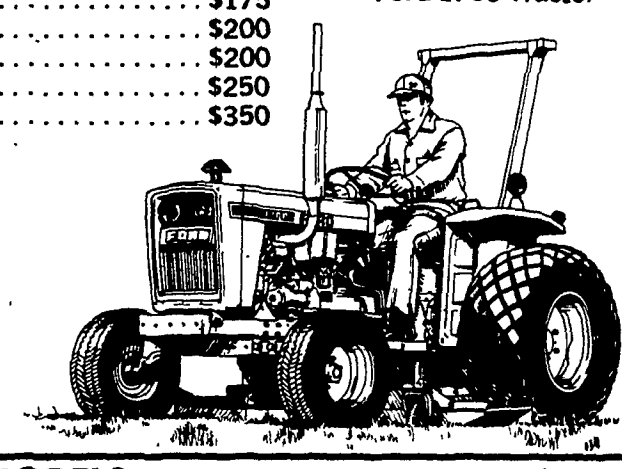

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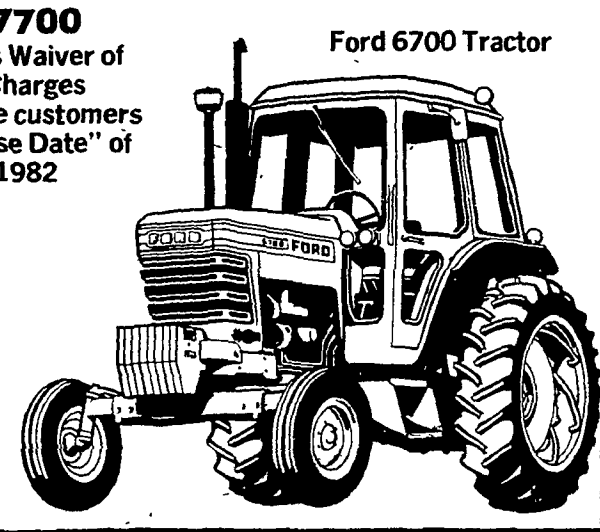
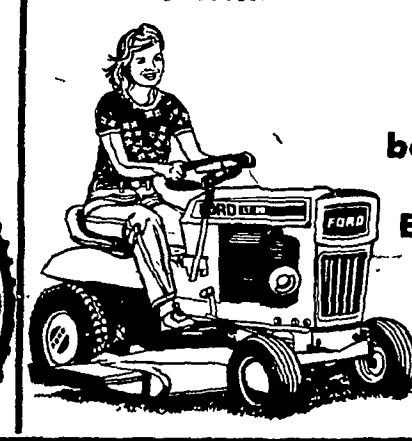


Ford LT 80 Tractor



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Nat'l Grange Master calls for higher support level

BY SHEILA MILLER

LANCASTER — Last weekend, during a special six-state workshop involving representatives of the Grange, National Grange Master Edward Anderson spent a busy two days in Lancaster County.

As the session participants took a short break, Anderson spoke to **Lancaster Farming** about current issues in the agricultural world, as they affect the Grange and farmers across the nation.

First on the list of important topics was the 1981 Farm Bill. Anderson, who began his farming career as a Nebraska dairyman, expressed the Grange's "disappointment in the total Farm Bill. "We asked the House to vote it down," he said. "It's below the price support value and is worthless to farmers as written."

Addressing the controversial dairy provisions, Anderson conceded that there are serious problems in the dairy industry. "We need to get production more in line with demand," he remarked. "But cutting price is not the way to go.

"The dairy cows are out there, and there are lots of replacemen heifers waiting to take their place in the milking string. It will take a period of years to turn the production cycle around. But this administration is determined to shut production down now."

Rather than cutting price supports, Anderson recommended spending more money to develop markets overseas. Concerning one international butter sales agreement involving the small island-country of New Zealand, Anderson said the Grange was in full support of this eyebrow-raising deal.

"There are many who opposed this sale of butter to New Zealand because the U.S. agreed not to sell butter to anyone else on the open market for 10 months. What these people don't realize is that we sold more butter to New Zealand in July than we normally sell on the open market for an entire year," he pointed out.

The National Grange Master explained that private industries can still peddle their dairy products in the world market,

Master Edward Anderson

however the New Zealand agreement prevents the Commodity Credit Corporation from selling, at the present time. "The only way CCC can export dairy products is through PL 480 programs and other 'giveaway' programs. But that restrictive time period of 10 months will expire fast."

In summing up the problem facing the dairy industry, Anderson stated, "The Grange only sees increased per capita consumption of milk as the long-range answer. And, increased export promotion would help balance the supply-demand situation."

Anderson, who joined the Grange in 1950, has held numerous local, county and state offices. He was elected State Master in 1970 and Overseer (vice president) of the National Grange in 1971. Then in November 1979 Anderson became the first National Master ever elected to the top Grange office from the Overseer's chair.

While serving as a member of the National Grange Executive Committee, Anderson was called on to represent the Grange on the Beef Development Task Force and served on both Beeferendum committees — in 1976 and then again in 1980. Commenting on the failure of these two national efforts to create a promotion checkoff for the cattle industry, Anderson predicted there would never be another beef referendum because the industry would never consider one. "Today, the beef industry is committed to working to develop a voluntary beef checkoff on a nationwide basis."

The Nebraska farmer stressed that one of the serious problems in the beef industry is merchandising. "Cattlemen haven't changed their merchandising and they haven't changed their product to keep pace with consumer demands. We still see too many fat animals; we need to change to what the public wants — lean meat.

"Look what happened in the hog industry. The hog of 25 years ago looks nothing like the modern hog, longer and leaner."

Anderson expressed his concern for a nationwide promotion effort in the beef industry. He cited the fact that, during the past three years, beef consumption has lagged. "Once the price of beef gets to a certain level, consumers back away from it and turn to cheaper meat, like poultry and pork which is available in large supplies. In a weak economy, like we have today, the first things consumers cut back on are red meats and dairy products."

As a native of the grain-rich Midwest, Anderson touched on the problems facing the feed grain farmers. "The Administration's export program is the only one available to help the grain industry. It's a great opportunity that is limited to a certain extent due to the effects of the recent embargo.

"The effects of this action imposed by the previous administration will be felt for many years," he noted. "The Russians have found markets in other countries to make up for the cutoff-supplies of U.S. grains. Now we can only sell them what amounts they can't buy from other suppliers. It'll be a long time before our grain industry will recover from the embargo."

Anderson expressed some assurance that the current administration in Washington, D.C. will not create another stumbling block in grain exports. "This administration is more reluctant to impose another embargo than most administrations would be," he said. "This one is committed to freer trade with less government involvement."

Bringing the conversation full circle, Anderson stated that the export situation as it affects the overall farm economy is the reason why there needs to be a Farm Bill with higher support levels. "The total economy depends on our net farm economy. If that's down, then manufacturers aren't going to sell machinery, buildings, automobiles, or new homes. These industries are all a part of the total that will suffer with a weak farm economy.

"The Administration will be making a grave mistake if it doesn't give agriculture a larger share of the budget."

One of the areas where the federal government proposes cutting back is in soil conservation — eliminating 1,200 technician positions during the next fiscal year. This potential layoff of skilled conservationists who assist farmers in solving their erosion problems is wrong, said Anderson.

"Erosion is a serious problem that should be dealt with immediately. It is the responsibility of the federal government to put the needed emphasis on erosion and flood control. This would be in the best interest of all consumers who would be paying for this service through taxation."

Anderson stressed the need for more research into the proper methods to achieve adequate erosion and flood control on farmland. He stated that these conservation measures should be carried out under a long-term agreement with the cooperation of all levels of government.

Concerning proposed cross-compliance stipulations, the National Grange Master said his organization is opposed to any requirements for soil and water conservation that would exceed the present restrictions.

"The Farmers Home Administration has required for a number of years that farmers borrow enough money to install needed conservation at the same time they borrow money to buy the farms. This, we go along with. But we don't feel this should be extended to all loans, such as a farm operating loan where a farmer might be borrowing money to plant crops on all rented land."

Addressing the trend to fewer and larger farms, Anderson commented that the rate of change from small to large has not been as rapid in recent years. He offered his solution to the problem, though — changing the tax laws.

"Certain Internal Revenue Service regulations actually encourage increasing farm size," he said. The tools of investment credit and capital gains are, for the most part, out of reach for the small family farms, he noted, because they are below the level of income needed to take advantage of these tax-saving measures.

One recent tax change that received the National Grange's complete endorsement involved inheritance taxes. "We supported the changes because they allowed for one spouse to pass the farm to the surviving spouse and raised the level of exemptions. They also changed the rules so that now the value of a farm is based on its agricultural use instead of its market price."

As a result of the new inheritance tax laws, Anderson stated, there will be a decrease in the number of farms on the market as years go by. And with fewer farms for sale, those that are sold will bring a higher price. "It used to be estates had to sell the farm in order to settle the inheritance taxes. This will no longer necessarily be the case."

Other agricultural issues that are being considered by the national farm organization include:

- Control of communicable diseases and the need to be willing to support restrictions in interstate movement of livestock, if needed;
- Identification of all imported meat;
- Informing the public on treatment of farm animals through education and letting them know it's in the best interest of animal producers to raise their livestock in the most comfortable environment; and
- Marketing by organizing into groups to allow farmers to be in a position to command an adequate price through production control.

Gardner is new SSSA president-elect

Walter H. Gardner, professor of soils in the Department of Agronomy and Soils at Washington State University, became president-elect of SSSA.

He will become president of the scientific, educational organization at the 1982 annual meeting in Anaheim, California.

His principal research interests are in soil physics and soil-water-plant relations. He has made many contributions, including measurement of soil water content using gamma ray and neutron attenuation, concurrent measurement of both soil water content and bulk density using two gamma ray energies, psychrometric measurement of soil and plant water potentials, and measurement of water status near absorbing roots and in root growth, water flow, and retention in layered soils.

This research has contributed to a better understanding of water movement in soil, particularly in stratified soil and in soil near absorbing roots, and to techniques for measurement of water content and potential in soil and plants.

He is known for his time-lapse motion picture, "Water Movement in Soil," which is used worldwide as an aid for teaching principles of water retention and flow. He has also authored or coauthored more than 70 papers. Currently a member of the editorial board of **Geoderma**, Gardner has served as associate editor and editor-in-chief of **Soil Science Society of America Proceedings**, now the **Soil Science Society of America Journal**.

Gardner is a Guggenheim Fellow (1964), an ASA Fellow (1966), and an SSSA Fellow (1976).

Other newly-elected SSSA officers for 1981-82 include: D.W. Nelson, Purdue University, West Lafayette, board representative, Soil Microbiology and Biochemistry (Division S-3); J.V. Mannering, Purdue University, West Lafayette, board representative, Soil and Water Management and Conservation (Division S-6); and W.C. Lynn, U.S. Department of Agriculture-Soil Conservation Service, Lincoln, Nebraska, board representative, Soil Mineralogy (Division S-9).

Also, A.H. Ferguson, Montana State University, Bozeman, chairman-elect, Soil Physics (Division S-1); H.L. Bohn, University of Arizona, Tucson, chairman-elect, Soil Chemistry (Division S-2); D.H. Hubbell, University of Florida, Gainesville, chairman-elect, Soil Microbiology and Biochemistry (Division S-3); D.R. Christenson, Michigan State University, East Lansing, chairman-elect, Soil Fertility and Plant Nutrition (Division S-4); and G.F. Hall, Ohio State University, Columbus, chairman-elect, Soil Genesis, Morphology and Classification (Division S-5).

In addition, D.E. Miller, U.S. Department of Agriculture-Agricultural Research Service, Prosser, Washington, chairman-elect, Soil and Water Management and Conservation (Division S-6); R.F. Fisher, University of Florida, Gainesville, chairman-elect, Forest and Range Soils (Division S-7); R.G. Hanson, University of Missouri, Columbia, chairman-elect, Fertilizer Technology and Use (Division S-8); and P.M. Huang, University of Saskatchewan, Saskatoon, chairman-elect, Soil Mineralogy (Division S-9).

USDA reports brucellosis status changes

WASHINGTON, D.C. — With the certifying of Box Elder County, the entire state of Utah has become certified free of cattle brucellosis in the U.S. Department of Agriculture's latest monthly assessment.

On the other hand, Childress County, Texas, slipped from certified-free to modified-certified status because of infection in local cattle herds when the county was due for recertification.

Dr. Paul Becton, director of the national brucellosis eradication program for USDA's Animal and Plant Health Inspection Service, said Utah becomes the 32nd state to have all counties certified-free. The state was free of brucellosis some years ago, but infected or exposed cattle imported from high-prevalence areas caused new outbreaks.

An infectious disease of cattle and other livestock, brucellosis can be transmitted to humans as undulant fever. In animals, the disease causes abortions and reproductive problems.

According to Becton, the system of rating counties for degrees of brucellosis prevalence is expected to give way, on Jan. 1, 1982, to a statewide rating system. A state now qualifies as certified free by having each and every county attain the status.

The new system, as proposed, would rate states as "free" (no infection for 12 months) "Class A" (herd infection rate no greater than 0.25 percent), "Class B" (herd infection no greater than 1.5 percent), or "Class C" (herd infection rate greater than 1.5 percent or 15 herds per 1,000).

Only cattle from "free" states would be able to move interstate with no testing requirements. One or more tests would be required to move from lesser rated states.

By the present rating system, only the affected county loses status when a brucellosis outbreak occurs. Next year, an entire state could lose status unless the infection is promptly contained.

A state could have a two-area classification after Jan. 1 under certain circumstances but whole-state classification would be the general rule.

Eradication of brucellosis is a top priority project for cooperating state-federal agencies concerned with animal health.

WHEN IT COMES TO FIRE DON'T PLAY AROUND!

LT alert

(Continued from Page A1)

that while LT is highly contagious in broiler and laying chickens it does not affect other poultry, such as waterfowl or turkeys. And the disease does not affect the 'health' of the eggs produced by the chickens.

Since the severe outbreak in 1978, producers have been encouraged to vaccinate for LT using an eyedrop-vaccination when the birds are 7-8 weeks old, followed by a booster vaccine which can be administered through a spray or in the water when the birds are between 16-18 weeks old.

VanBuskirk pointed out that most commercial operations are aware of LT and how to deal with the problem, but noted most "backyard" chicken producers would not recognize the disease.

"These backyard flocks of 50 birds could lose 2 or 3 that seemed to be sneezing before they died and never suspect LT. These flocks harbor the disease and the birds become carriers," said VanBuskirk. "That's when it can get to a commercial flock."

Irwin pointed out that "for some time, small producers were given free vaccine to protect their flocks."

LT is easily spread by rodents, wild birds and people. To safe guard an operation from possible exposure, producers should follow these recommendations:

- Do not visit other poultry farms;
- Insist that salesmen, feed deliverymen, egg customers, and pickup people stay out of the house;
- Use all-in, all-out operations where possible;
- Lock all poultry houses;
- Provide obvious, outside receptacles for feed slips, invoices and other messages;
- Know your pullet source and its vaccination program;
- Consider starting a vaccination program for LT;
- Submit any suspicious birds to a diagnostic laboratory;
- Control rodents, and any stray dogs or cats; and
- Contact the flock supervisor or Extension agent in the county.

Sports and Outdoor show coming Feb 6

HARRISBURG — One of the largest sports and outdoor shows to be displayed inside comes to the Pennsylvania State Farm Show Arena on Saturday, February 6 through Sunday, February 14 when the 27th Annual Eastern Sports and Outdoor Show arrives.

"The show attracts thousands of outdoors enthusiasts from across the United States and Canada," said Show Director Richard Libertine. "Over 400 displays feature everything from fishing tackle and hunting equipment to recreational vehicles, boats and travel."

Again, this year as in previous years, many and varied competitions will be held throughout the week. They include duck decoy carving and painting on opening Saturday, February 6; Pa. Fish Commission awards and fly-tying contest on Monday, February 8; turkey calling on Tuesday, February 9; duck calling on Wednesday, February 10; and a week-long archery tournament and Jaycee/Daisey BB gun competitions.

Show hours are: Saturday, February 6 - 10 a.m. to 10 p.m.; Sunday, February 7 - 12 noon to 7 p.m.; Monday, February 8 through Thursday, February 11 - 12 noon to 10 p.m.; Friday, February 12 (President's Day) - 10 a.m. to 10 p.m.; Saturday, February 13 - 10 a.m. to 10 p.m.; Sunday, February 14 - 12 noon to 7 p.m.

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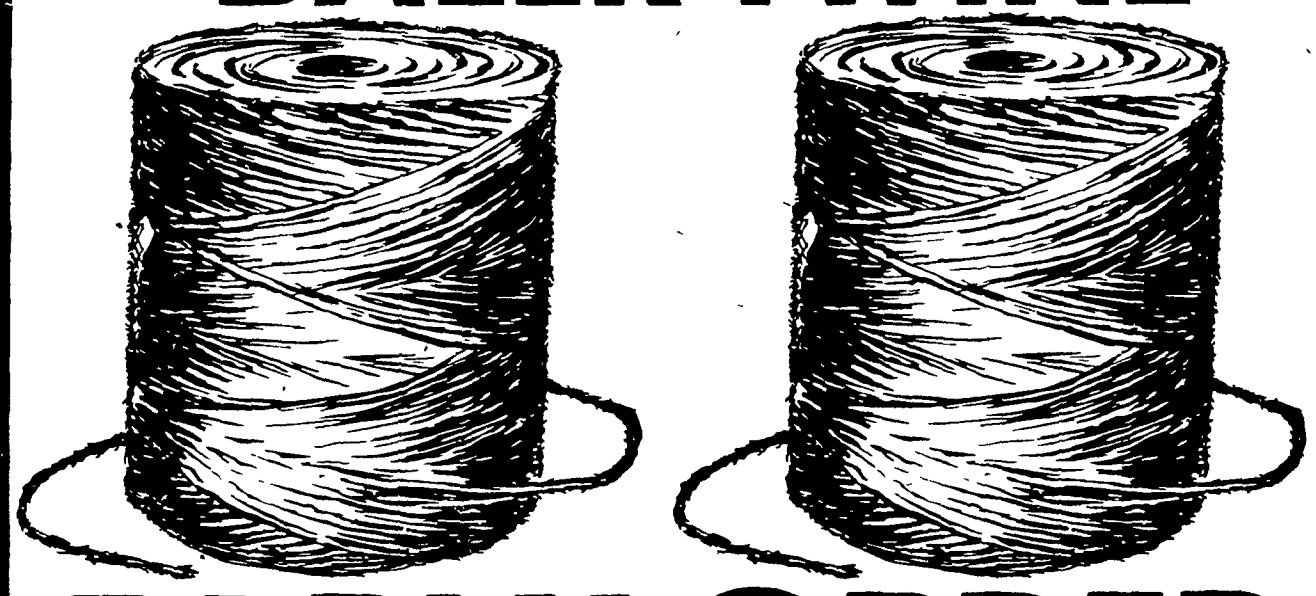

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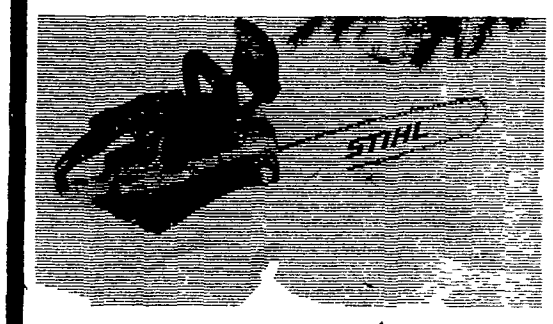

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Legislative Roundup

'Right to Farm' bill passes House

HARRISBURG — This Tuesday the Right to Farm bill climbed one more step on the legislative ladder to becoming law. With a vote of 179-2, House Bill 1823 was passed by the House of Representatives in its last week of sessions before the close of 1981.

Introduced by Lancaster County's Rep. Noah Wenger on Sept. 22, 1981, HB 1823 is designed to protect "agricultural operations from nuisance suits and ordinances."

The three-page bill states that "when nonagricultural land uses extend into agricultural areas, agricultural operations often become the subject of nuisance suits and ordinances. As a result, agricultural operations are sometimes forced to cease operations. Many others are discouraged from making investments in farm improvements.

"It is the purpose of this act to reduce the loss to the Commonwealth of its agricultural resources by limiting the circumstances under which agricultural operations may be subject matter of nuisnace suits and ordinances."

The bill spells out that no nuisance action can be brought against a farm which has been operating for at least one year and where the conditions of circumstances complained of have existed for the most part unchanged since the operation was established, and that the farm is operating normally.

It further notes that if an operation is expanded and the expanded facility has been in operation for one year or more prior to the complaint, the farmer is protected, as long as the farmer is abiding by the rest of the state's regulations, such as the Clean Streams Law.

The bill had received the blessing of the House Agricultural and Rural Affairs Committee on October 28 with a vote of 20-2. In this week's full-House action, the two 'no' votes were cast by Pittsburgh's Rep. Ivan Itkin and Montgomery County's Rep. Robert Reber.

Commenting on the two votes cast against this bill, Rep. Wenger pointed out Rep. Reber went on record after the official roll call saying he had inadvertantly voted 'no' but had wanted to vote 'yes.' This was recorded in the written journal of the legislative session, however the vote stood at 179-2.

From here, HB 1823 moves to the Senate, with action expected early in 1982. Wenger stated he was optimistic that the bill would receive fair consideration from the Senate and reported that the Senate Agricultural Committee chairman has said he'd be "pleased to put it on next year's agenda."

According to Wenger, HB 1823 is just one of the ongoing needs for programs to encourage farmland preservation in Pennsylvania.

In other action on the Hill, Senate Bills 919-920, which exempt farm manure facilities from real estate taxes, were split this week. The Senate concurred with the House amendments on SB 920, however, they held SB 919 in conference committee until the new year.

House Bill 327, which would require a bill of sale to prove ownership when Christmas trees are cut, transported or sold, will remain in the House Ag Committee over the holidays. Vice chairman Noah Wenger pointed out there were "some problems in the enforcement sections" of the bill.

And, the long-awaited House Bill 1351 that would declare milk to be the state's official beverage will have to wait until next year for further action. Although it was passed by the House last May, Rep. Joseph Grieco's bill was returned to the Senate Ag Committee.

Farm Bill

(Continued from Page A1)

bill is very grave, indeed," warned Senator Jesse Helms, Chairman of the Senate Committee on Agriculture Nutrition and Forestry.

Helms reported that in the absence of a Farm Bill, all farm programs would revert to permanent legislative authorities of 1938 and 1949. It has been estimated that returning to this original legislation for farm programs would cost more than double the estimated cost of the 1981 Farm Bill.

"Without approval of this Farm Bill the nations's farm policies will be thrown into confusion and the impact upon the farm economy will be extremely adverse," said Helms.

The bill includes four-year price support programs for wheat, feed grain, dairy products, cotton, rice, peanuts, soybeans, sugar and wool. A one-year extension of the food stamp program is included as well as grain reserve programs, soil conservation incentives, protection for farmers against export embargoes, and programs for agricultural research, extension and teaching.

Major savings between the Senate and House bills were accomplished through a scaled down dairy program and revised target prices.

The bill sets milk price supports at not less than $13.10 per hundredweight for fiscal 1982. In 1983, 1984 and 1985, the minimums would be $13.25, $14.00 and $14.60 if surplus purchases during the year are projected at more than $1 billion, the minimum would be 70 percent of parity.

The support would rise to 75 percent of parity if projected surplus purchases are less than 4 billion pounds of milk in 1983, 3.5 billion in 1984 and 2.69 billion for 1985.

The bill also directs the Secretary of Agriculture to report on the strengths and weaknesses of existing and possible new programs for controlling milk surplus, including a review of the impact of government programs on regional supplies. The Conference Committee report recommended that the President establish a limit on casein imports.

Feed grain target prices, another major difference between the Senate and House version, sets corn prices at not less than $2.70 per bushel on the 1982 crop and $2.86 for 1983, $3.03 for 1984 and $3.18 for 1985.

Price support loan rates for corn would be not less that $2.55 per bushel from 1982-85. Regulations on set-aside or direct acreage limitations as a condition of price support, on use of paid diversion programs, on disaster payments and on similar provisions would be the same for wheat.

The Secretary would be required to provide target price protection for grain sorghum and oats. Price support loans for grain sorghum, barley and oats would be set at "fair and reasonable" levels tied to the level for corn.

Conferees urged the Secretary to consider, as in the case of wheat, offering an increased loan rate to any producer who enrolls in a future set-aside or acreage reduction program.

At press time the 1981 Farm Bill had not reached the White House for the President's signiture.

In other legislative action, the Senate recently approved the presidential nominations of W. Proctor Scarboro of Zebulon, N.C., and Ralph Ball of Sterling, Kansas to be members of the Federal Farm Credit Board of the Farm Credit Administration.

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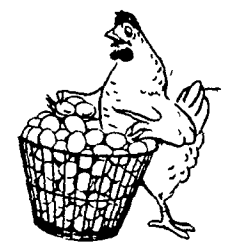

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Shorthorn Assoc. and Auxiliary name officers

LOUISVILLE, Ky. — Richard Prentice, owner of Arrowhead Farm at Fulton, Mo., has been reelected president of the American Shorthorn Association during the group's annual meeting held here during the North American International Livestock Exposition. The announcement was made by James W. Shirley, executive secretary-treasurer of the Association.

Prentice had been elected in 1979 to the board of directors of the national beef cattle breed organizations headquartered in Omaha, Ne.

John Humphreys of Tynywtra Farms, Wolcott, In., was elected to serve as vice president. Humphreys, reelected for a second terrm to the board of directors in 1979, succeeds Don Stout of Kremlin, Ok., in the vice presidency.

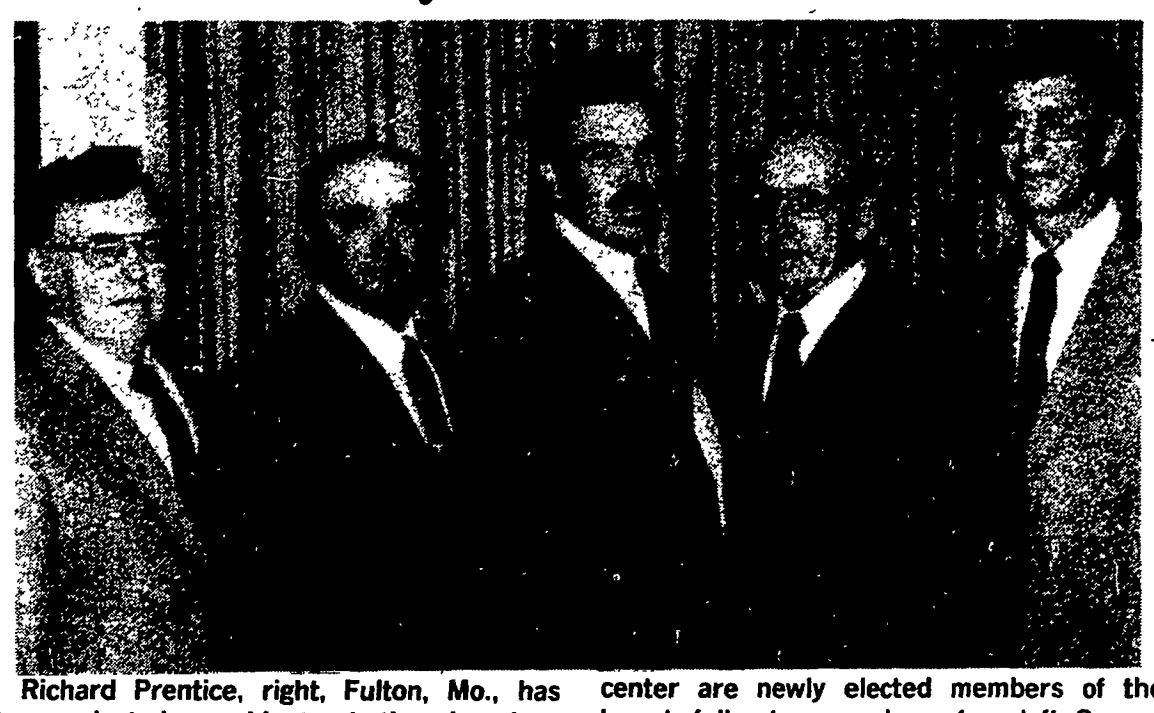
Three persons were elected for three-year terms to the nine-member board by the 103 voting delegates from 26 Districts that represent Shorthorn and Polled Shorthorn producers across this country and Canada. They are Ric Hoyt, Burns, Or.; Richard Braman, Ashley, Mi.; and George Alden, Hamilton, Mo. They succeed retiring board members Ronald Hofstrand, Leeds, N.D.; Mark Graham Sr., Waverly, Mn.; and Jim Kibler, Waitsburg, Wa.

Other members of the board include Robert Douthit, Orange, Va.; Mike Dugdale, Omaha, Ne.; Charles Leemon, Hoopeston, Il., and Stout.

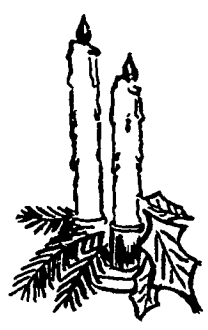
The National Shorthorn Lassies, observing their 25th anniversary as the breed's promotional auxiliary, also held their annual meeting during the Louisville activities. That group elected Mrs. Wilma Russell of Fullerton, Ne., to serve as president. A previous member of the board, she had served as coordinator of the group's national queen contest and as vice president prior to being elected to the top leadership position. She succeeds Mrs. Marge Tribbett, Linden, In., who had served two terms as the group's president.

Other officers elected included Mrs. Janice Alden, Hamilton, Mo., vice president; Mrs. Shirley Raisbeck, Lancaster, Wi., secretary; Mrs. Mary Marston, Canton, Ks., treasurer; and Mrs. Mary Bass, Plainview, Tx., public relations.

Other women on the board of directors and filling other leadership posts include Mrs. Judy Hoyt, Burns, Or.; Mrs. Barb Campbell, Determan, Early, Ia.; Mrs. Connie Wise, Bethany, Il.; and Mrs. Tribbett.



Richard Prentice, right, Fulton, Mo., has been elected president of the American Shorthorn Association. Elected vice president was John Humphreys, left, Wolcott, In. In the center are newly elected members of the board of directors are shown from left, George Alden, Hamilton, Mo.; Ric Hoyt, Burns, Or.; and Richard Braman, Ashley, Mi.



Barnard stresses bulk tank calibration

UNIVERSITY PARK — Everyone wants to get paid for all of the milk which they produce. To assure that this is the case, be sure that your bulk tank is on a firm foundation and properly calibrated.

If there is a crack in your milkhouse floor, the bulk tank will not remain in calibration. Your bulk tank must set on a firm foundation. This can be on a solid floor, or pillars under all legs. Pillars or footers, under the walls, should extend below frost level, up to six feet below ground.

Every farm bulk tank should have the calibration checked at least every three years, says Sid Barnard, Penn State Extension food scientist. Cooperatives and federal milk marketing orders have trucks equipped with meters and provers.

Contact your cooperative or milk dealer if you have reason to believe that your bulk tank is out of calibration. When time permits, they will conduct a quick check using increments of 25 gallons of water. Recalibration should be done, if necessary, using five gallon measures of water. Check or recalibrate a factory calibrated tank as soon after installation as possible.

Check the legs of your bulk tank and the floor of your milkhouse. Take steps to have the calibration checked if it has been more than three years. Your income depends on your bulk tank remaining in calibration, Barnard stresses.

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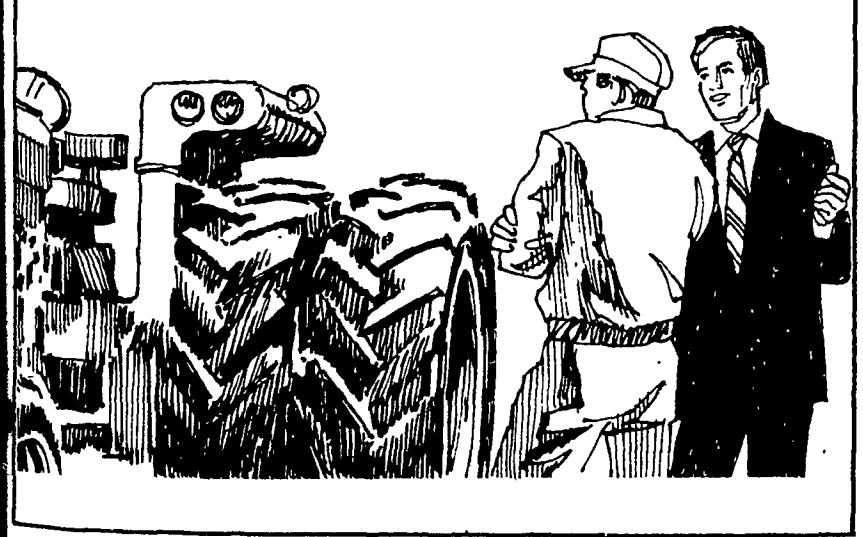

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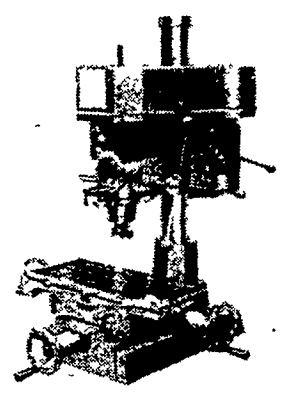

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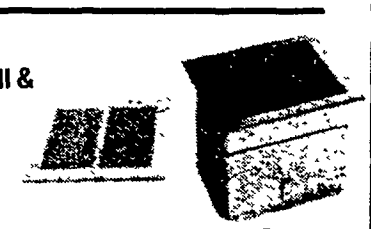

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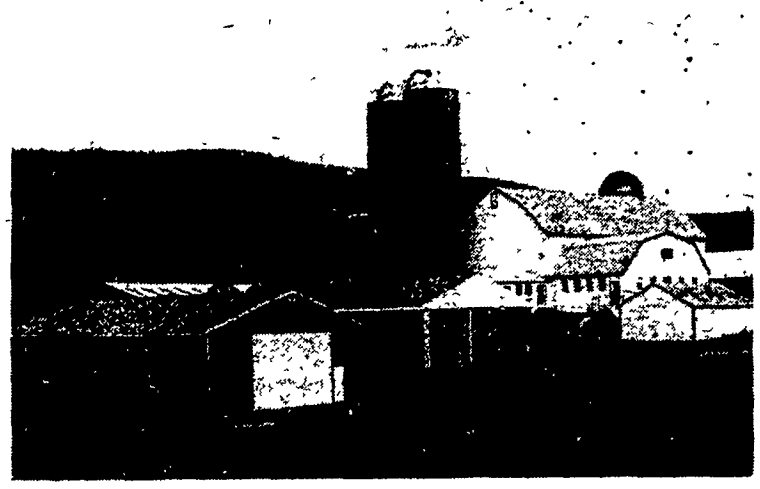
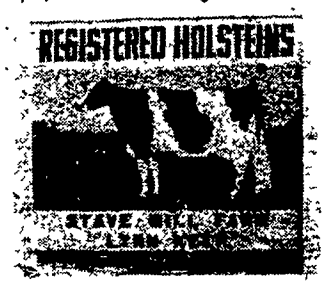


The Neers have 85 Holsteins on test, with a current average of 19,250 lbs. milk and 701 lbs. butterfat. The cows are divided into four production groups and Lynn uses a total mix ration. He feeds haylage, corn silage and high moisture shelled corn. Alfalfa is grown on 104 acres and corn on 150 acres.

Lynn's breeding program concentrates heavily on Canadian bulls. "I believe the Canadians are way ahead of us in breeding for functional type. But not production, they don't feed like we do."

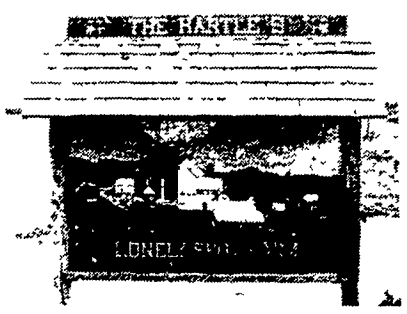
Foremost in the Neers' thinking is that cows should be kept clean and comfortable. Their cows are well-groomed. Lynn has made rapid progress in his dairy farming operation. Unique ideas have done much to help keep the bills paid.



LONELY SPOT FARM, JOE & GLADYS HARTLE, JR.

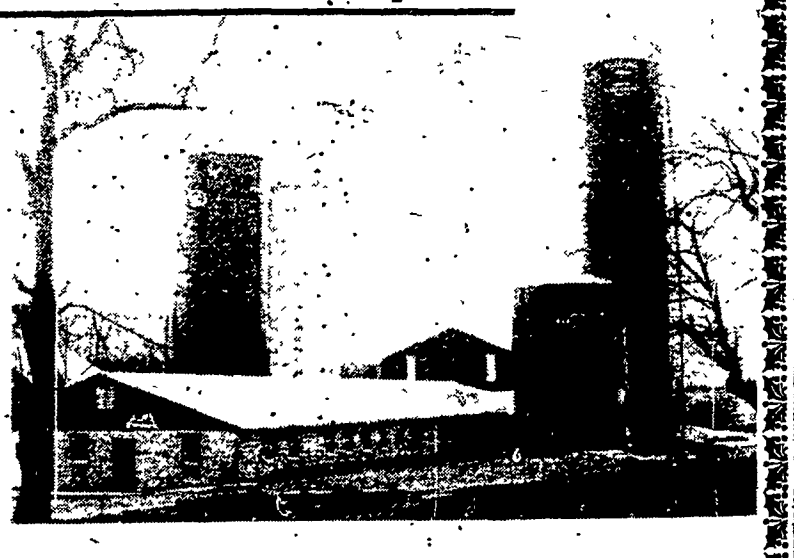
Joe was recently named "PA Grasslander of the Decade" by the PA. Forage and Grassland Council. Also, was named Master Farmer.

This is a family Holstein dairy operation (4 daughters & 1 son). Young stock are housed in a free stall barn and loose housing is used for dry cows.



Hartles believe "cleanliness is the best advertisement for the dairy business."

There are 66 registered Holsteins on test at Lonely Spot Farm. They finished the D.H.I.A. year at 21,630 lbs. milk and 832 lbs. butterfat. Joe feeds haylage, high moisture shelled corn and corn silage. The cropping program includes 100 acres of alfalfa, 30 acres of mixed hay and 140 acres of corn.



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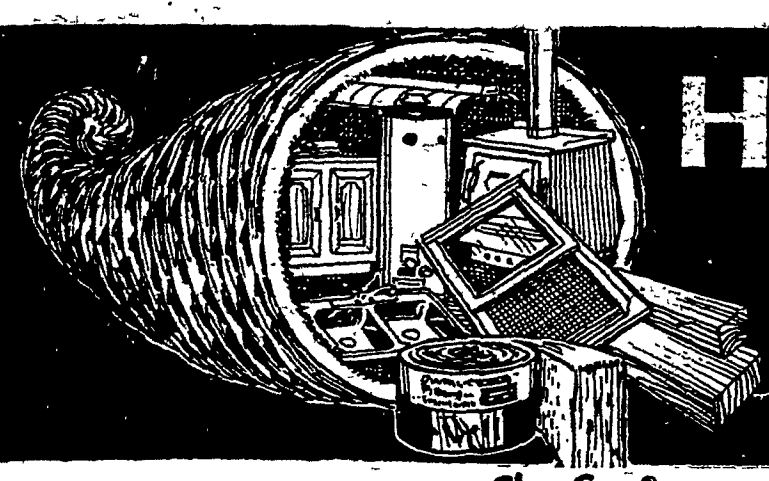

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11'	11.51	—	—	—	—	12.80
12'	12.56	15.66	18.02	9.49	13.40	13.96
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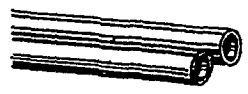

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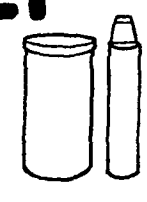
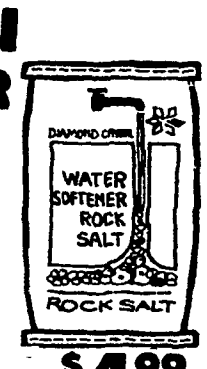


SALT NUGGETS



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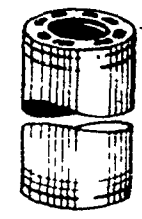

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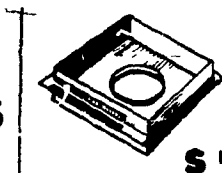

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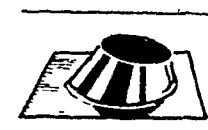

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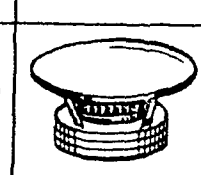

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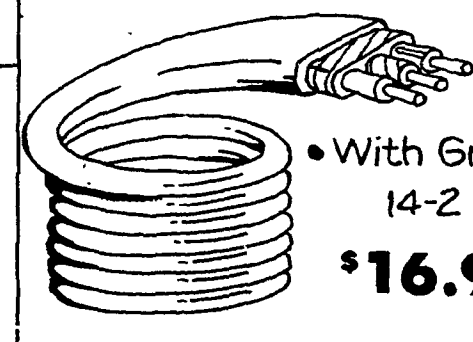

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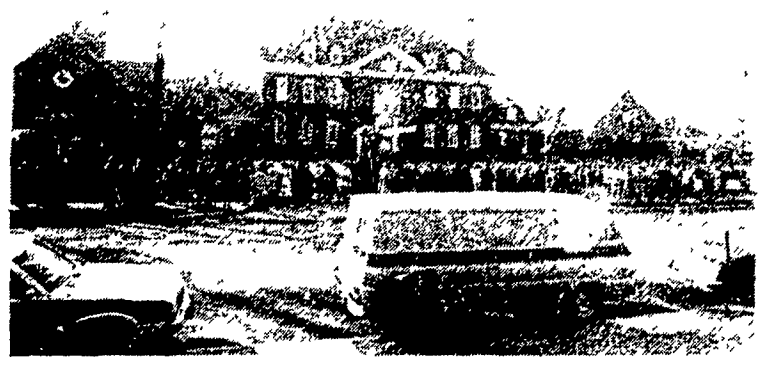
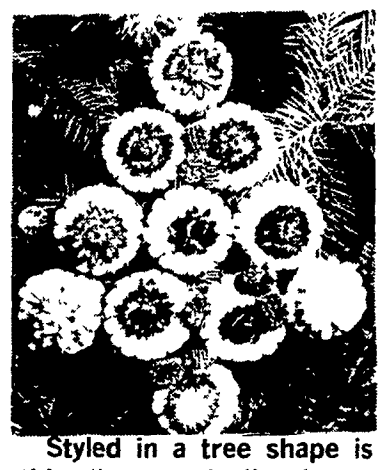


Some people waited in line for nearly one and one-half hours to see the delightful tree bearing the fruits of Pennsylvania's agriculture.

Every spot on this Christmas tree was a special surprise as no one knew what to expect as they circled the tree.



Styled in a tree shape is this "corncoction" of ear corn slices, accented with strawflower and tiny cones.

This Christmas pig made of cornhusk hide and cob body was the contribution of Dana Danfelt, Saltillo, Huntingdon County.

This little sheep peeping out through the branches was from a ball of lamb's wool completed with a glued-on face and a rhinestone studded bow.

The tree at the Thornburgh home this year stands as a statue dedicated to Pennsylvania's agriculture.

Farm products decorate Governor's Christmas tree

BY JOYCE BUPP
Staff Correspondent

Baler twine. Corn husks. Milkweed pods, thistle heads, corn cobs.

Items you might find on any Pennsylvania family farm.

But in the Governor's mansion?

Indeed, all those items - and more - have found a home on one of the most delightful, imaginative, Christmas trees to ever grace the home of the state's first family.

Actually, it was first lady Ginny Thornburgh's idea.

"I got the idea in bed one night last summer," explained Mrs. Thornburgh. "It just seemed like it would be fun to have a Christmas tree decorated with Pennsylvania farm products. So I called Trish Hallowell and asked if she'd help."

So to Trish Hallowell, wife of state Secretary of Agriculture Penrose Hallowell, fell the task last week of the actual decorating of the 13-foot shapely Douglas fir from York County's Strathmeyer Forests.

With the aid of a few extra sets of tree-trimming hands from the Ag Department, Trish Hallowell spent an entire day unpacking and hanging the hundreds of ornaments. There were 11 large plastic bags filled with boxes of farm product ornaments, plus several dozen others that had been delivered directly to the Front Street mansion.

The assortment of hand-crafted ornaments had come in response to a call sent out in early Fall to several of the state's major agriculture organizations. Youth, up to age 18, were invited to design ornaments of Pennsylvania farm products for use on the 1981 first family's Christmas tree.

Response was enthusiastic as ornaments poured in from every county in the state. Organizations represented included the 4-H, Future Farmers of America, Future Homemakers of America, Pennsylvania Farmers Association, Grange, and Farmers Union.

Last Sunday afternoon, over 600 ag guests, including rural youth who created the ornaments, their parents, and advisors, attended a reception celebrating the official lighting of the tree in the stately home of Governor and Mrs. Thornburgh.

Although the Governor was unable to take part due to illness, the ag guests were received by Mrs. Thornburgh, Secretary of Agriculture Penrose Hallowell and Mrs. Hallowell.

After being greeted in the reception line, wide-eyed youngsters being honored encircled the decorated tree, searching out their own creations, and enjoyed an elegant snack buffet of fruits, cheese, crackers, vegetable nibblers with dips, candies and punch, served at the candlelit state dining room table.

From the Somerset County-made star of straw, baler twine and pine cone center that topped the tree, to a large dipper gourd ornamented with pine cones hanging from one of the bottommost branches, the collection was a tribute to the creativity of farm youth and to Pennsylvania's farm segment.

Encircling the tree was a 25-foot string of dainty hemlock cones, the "fruit" of Pennsylvania's state tree. Chester County youth had collaborated to string the cones as part of their contribution to the natural ornament tree.

"Oh mommy, this one's beautiful," one four-year-old observer, in obvious enjoyment of the tree and its original ornaments, was overheard to say. That description could have applied to every single creation.

Corn was a favorite raw material ornament.

Angels of corn husk and a husk-covered cob styled into a pig with a stem-end snout and husk ears hung from the tree.

Twigs inserted into another piece of cob formed the legs of a horse, and inch-thick cross sections of an ear of corn were wired together in a tree shape, ornamented with colorful strawflowers.

Miniature wreaths of a variety of materials filled the fragrant boughs of the Douglas fir. Herbs, grape stems, woven wheat and braided baler twine, even what appeared to be pressed and shaped milkweed fluff, or maybe angora rabbit hair, formed the small circle ornaments, colorful with ribbons, tiny bows and dried flowers.

Milkweed pods also saw heavy use, with some forming angel wings, others filled with various decorated inserts, and five glued together in a starburst poinsettia shape.

Teasel, the prickly procupine-like heads of a plant of the thistle family, were transformed into heads of tiny mice, dressed in colorful calico gowns.

Decorated with various seeds, eggs hung from the branches, or had been crushed into bits to ornament snowmen and angels.

Then there were some even more unusual ideas.

A shawdowbox of real honeycomb, with strawflowers centered on it, added a suggestion of holiday sweets.

Luzerne County's 4-H Clovers Club sent a hand carved white-tail deer, designed by Erin Asolfi. Not only had Erin used native wood for carving the diminutive buck, but added tiny eyes of Pennsylvania coal as well.

The three children of dairy farmers Mr. and Mrs. Gideon Yoder, Mifflin County, were among the families of ornament makers. Diane, age 8, loves the farm cats, and styled a cat in a basket from cornhusk. Twins Caryn and Daryn also shaped cornhusk, with Caryn making an angel, and Daryn creating a horse with - what else - a tail of real cow hair.

While guests mingled through the state area of the beautiful mansion, soft notes of chamber music added a festive holiday touch.

Quietly playing in the background throughout the reception were musicians David Hildebrand and Ginger Houpt, of Annapolis, Maryland. Both are private music teachers as well as students at Dickinson College, and entertain professionally with special emphasis on appearances at historic sites and museums.

Caught in a moment of spontaneous entertainment with the duo was Heather Lawson, 8, of Curryville, in Blair County. As the musicians played the familiar notes of the "Twelve Days of Christmas," Heather delighted those in the immediate area of the music with hand motions to the song that she had learned in her elementary school. She was also an ornament contributor, with eggshell creations among those on the tree.

When the last of the several hundred had gone through the receiving line, Mrs. Thornburgh and the Hallowells had made their way to the tree, amidst a chorus of

(Turn to Page B4)

Posing by the fully-decorated tree are Susan Hallowell; Ginny Thornburgh, originator of the idea; Penrose Hallowell; and Trish Hallowell, decorator of the tree.

Homestead Notes

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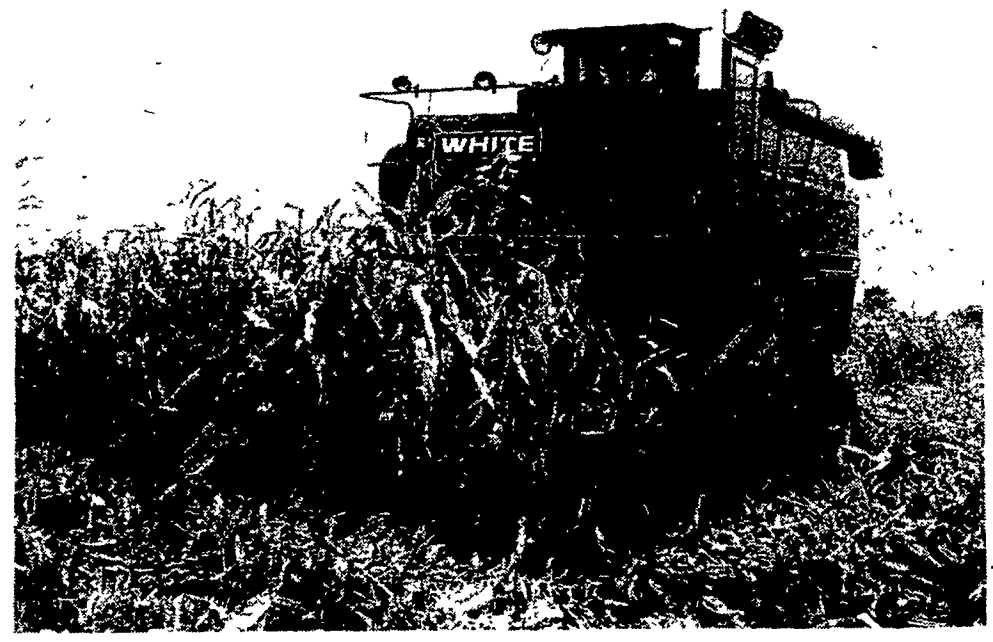

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Ida's Notebook

Ida Risser

Last week I spent a most pleasant day with my daughter, Judy, who lives in Palmyra. She had a days vacation and asked me to go along with her to see some historic sites in Philadelphia.

We took a train out of Lancaster and arrived at the 30th Street Station - one-half hour late, but we had no schedule to keep so it didn't bother us. As it was a weekday, the only thing that was crowded was the subway that we took to 5th Street in the historic area of Philadelphia. We were packed in like cattle in a truck but the car traveled at high speed between stops and we were at our destination in no time.

First we toured Old City Hall which was used by the U.S. Supreme Court from 1791 to 1800. Next door was Independence Hall which was constructed in 1732; the Constitutional Convention was held here. The Liberty Bell has now been moved to its own special pavilion.

Throughout the day we visited ten more buildings and saw two films. One was about the founding of Philadelphia and the other was on Benjamin Franklin's life. Both were shown in huge auditoriums with only about a dozen people present.

The homes of John Todd, Dolly Madison's first husband, and the home of Bishop White were quite interesting as they showed the difference between the middle-class citizen of the 1700s and the upper-class.

While eating our lunch in a reconstructed 18th century tavern, we were surprised by a heavy rainstorm. Nevertheless, we made our way to colonial Christ Church which was built between 1727 and 1754 and where William Penn's family worshipped.

Next we walked to the Betsy Ross House where the maker of the first American flag lived. I was amazed to learn that she also made musket balls for the Continental Army and was an upholsterer too. We enjoyed the Pa. Horticultural Society exhibits and the Marine Corps Memorial Museum. We saw a printing press in operation which was made in Manheim.

If you plan to visit Philadelphia, do stop at the Visitor Center first.

We walked about 17 blocks, some of it through the rain, but it was all worth it.

Governor's tree

(Continued from Page B2)

carols from the group, for official photographs and interviews with the broadcast media.

"I hope you all found your ornaments," she told the assembled youngsters. "Every single one is just beautiful."

A flurry of picturetaking ensued, as youth from across the state lined up with the smiling and gracious first lady of the state for a photo remembrance of their afternoon at the Governor's house.

At 4 p.m. the reception ended as farm families headed back to their rural homes and a sudden quiet descended on the state rooms of the mansion. Ginny Thornburgh reflected on her joy at being able to have so many children visit and experience the Governor's home and, a mother herself, commented on how such a large assembly of children had been so well behaved.

The Hallowells also expressed their appreciation for the cooperation among the several farm groups in gathering the hundreds of ag ornaments, and the enthusiasm with which they had received the idea. According to Trish Hallowell, she had spoken during the afternoon with numerous mothers who said their families had made and used similar ornaments in their own holiday celebrations.

The treats offered to the hungry guests were as beautiful and delicious as the ornaments on the tree were unique and handcrafted.

But at least one ornament originally intended for the display never made it to Harrisburg.

The explanation for the missing decoration came in a letter from a Perry County FFA chapter. It seems that one of the ornaments intended for the tree had "rotten" before being sent. The letter's total honesty about the fate of the ornament had been especially touching to Mrs. Thornburgh.

A statement released during the afternoon from the Governor summed up the family's appreciation of the ornaments and the spirit they lent to the season.

"Our family Christmas tree, and the hundreds of beautiful handcrafted ornaments on it, are symbolic of our faith in the future of Pennsylvania agriculture," he said. "We are gratified by the dedication of our 4-H and FFA members who took the time to make these ornaments, and at the same time, are reassured that their dedication carries over into their lives and dreams."

And he added, "Christmas is a time of rededication to our goals and aspirations. I know that spirit is embodied daily in the lives and work of our farm community. This gives us further cause, at this most holy time of the year, to rejoice in our hopes for the future."

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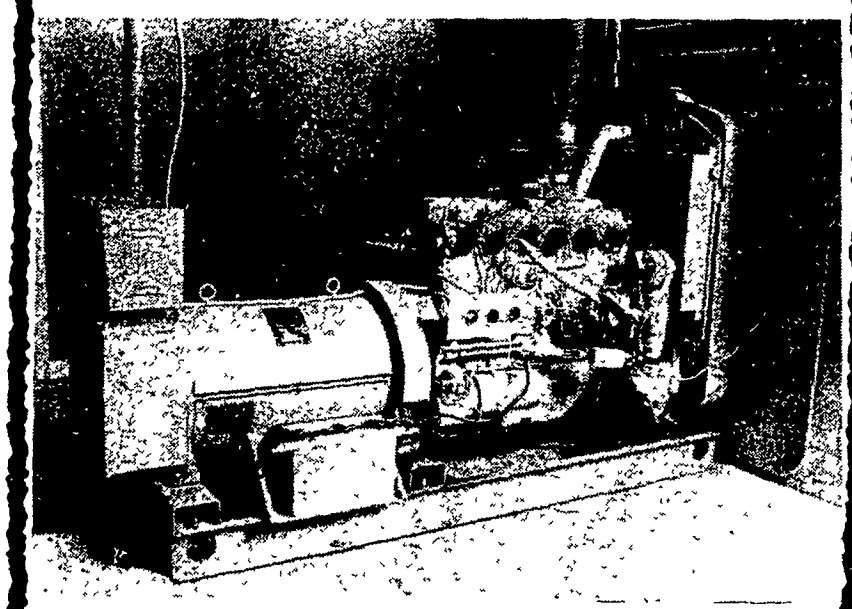

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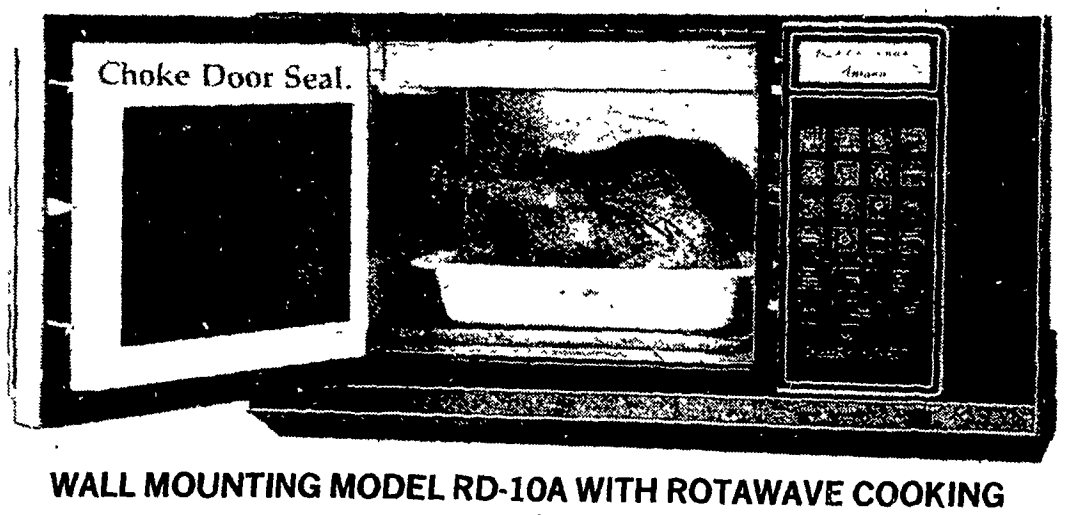

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Using a pop corn ball maker will save time and burned fingers, too, while taking the mess out of shaping pop corn balls by hand.

To create your own holidays tradition, follow these easy how-to-instructions for creating a pop corn tree:

POPCORN BALL TREE

Materials:

—Styrofoam cone (Note: size can vary; a 15" cone requires about 24 pop corn balls)

—Pop corn balls

—Nylon net or plastic greens to fill space between pop corn balls

—Tree trims (beads, candy, bows, ornaments, etc.)

How-To:

—Prepare pop corn ball using pop corn-marshmallow base. Insert a floral stick in each.

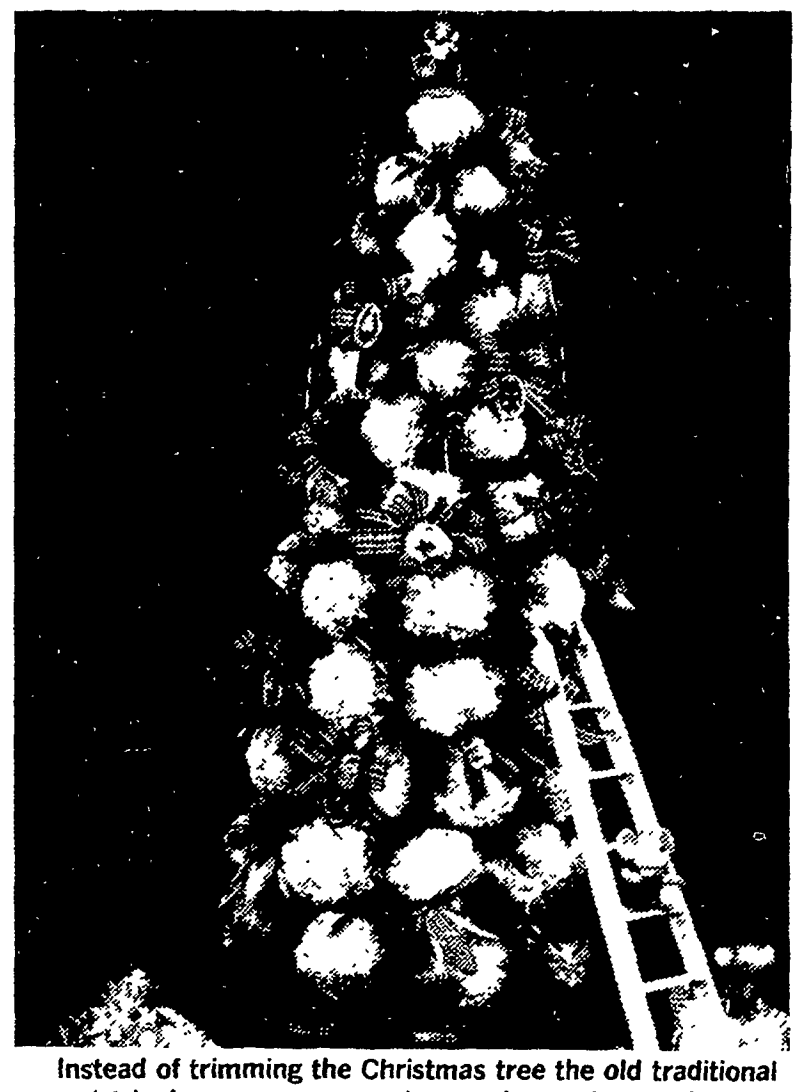
—Starting at the bottom of the styrofoam cone attach pop corn balls to cone by inserting the floral stick attached to the ball into the cone. Progress in rows to the top of the cone.

—Decorate with your choice of trims. Attach a floral stick to each trim and attach to cone. Select a theme and allow imagination to take over.

POPCORN-MARSHMALLOW BASE

6 quarts popped Jolly Time Pop Corn
1 1-pound package marshmallows
¼ cup butter or margarine

Heat marshmallows and butter in top of double boiler or over low heat until melted and smooth. Add color, if desired, and stir until evenly blended. Pour over pop corn and mix until well coated. Form into balls, using pop corn ball maker. Recipe makes 10-12 pop corn balls.



Instead of trimming the Christmas tree the old traditional way (stringing popcorn on a long string and wrapping the tree) try making this popcorn tree filled with popcorn balls.

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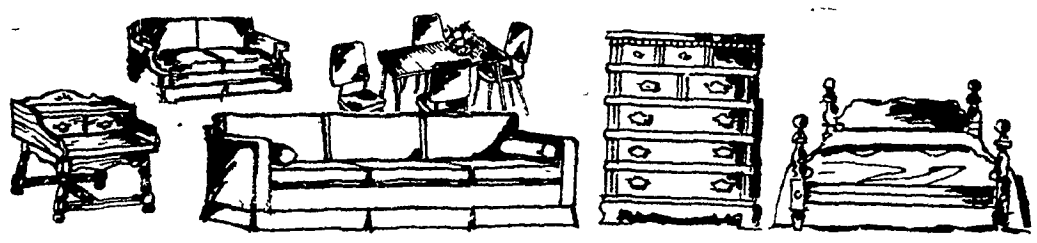
Off 30 West By-Pass at Centerville Exit

YORK STORE
4585 West Market St. - 717-792-3502
HOURS MONDAY - FRIDAY 10 A.M. - 9 P.M.
SATURDAY 10:00 A.M. - 5:00 P.M.



Closing Christmas & New Year's Eve 5:00 PM

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Balance of Sets Are At Wholesale & Some 60 - 70% Off Retail

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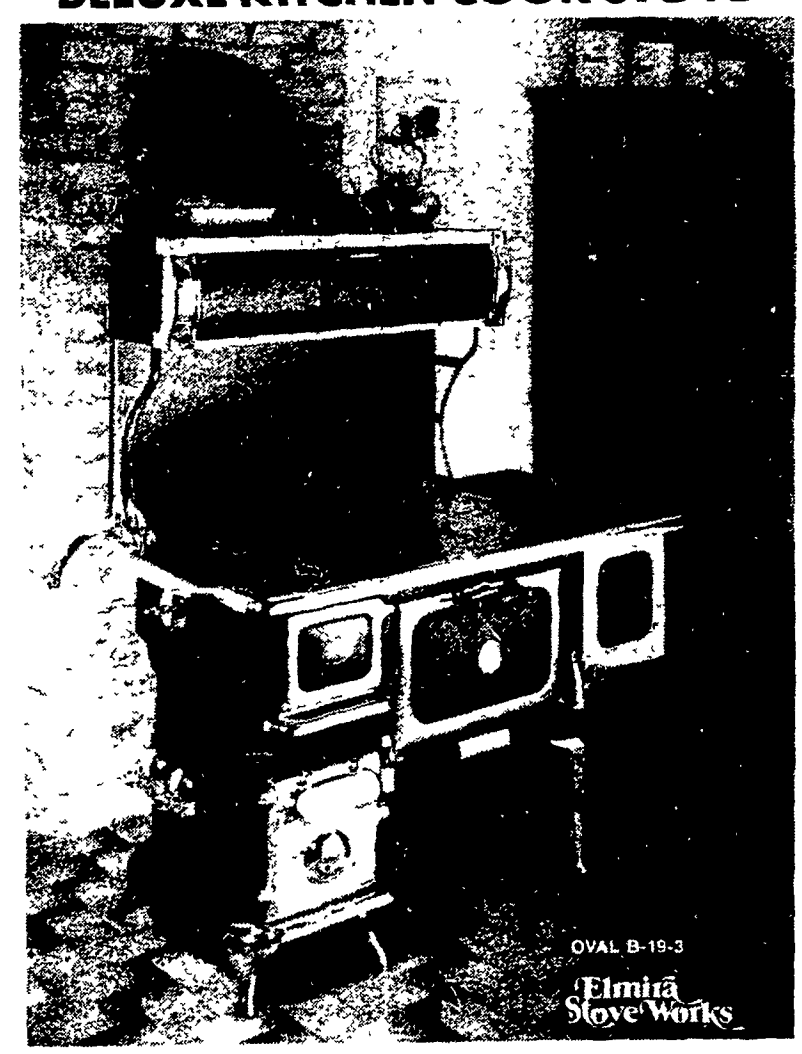
ELMIRA OVAL WOOD OR COAL BURNING DELUXE KITCHEN COOK STOVE



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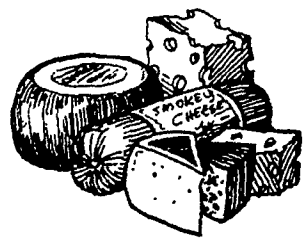
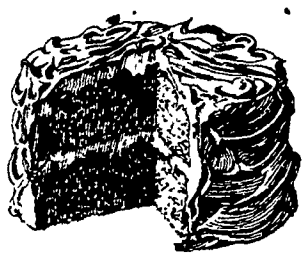


Home On The Range



Pop some fun this Christmas eve

After the cookies are made, the Christmas meal planned and the presents wrapped, all that is left to do is sit around the fireplace on Christmas eve and wait for Santa.

Make the time go faster by popping some popcorn. Nothing else this easy to make, comes out as good as popcorn. And if you get ambitious, try something new and special with popcorn. Try some of the following recipes:

CHOCOLATE POPCORN BALLS

5 qt. popped popcorn
1 jar marshmallow topping
1 pkg. chocolate bits
2 T. water
1 t. vanilla

Place popped corn in large greased pan. Melt marshmallow topping and chocolate bits in top of double boiler. Stir in water and vanilla. Pour chocolate mixture over popcorn mixing thoroughly.

Shape into balls. If desired, place wooden ice cream stick in balls.

HONEY CRUNCH

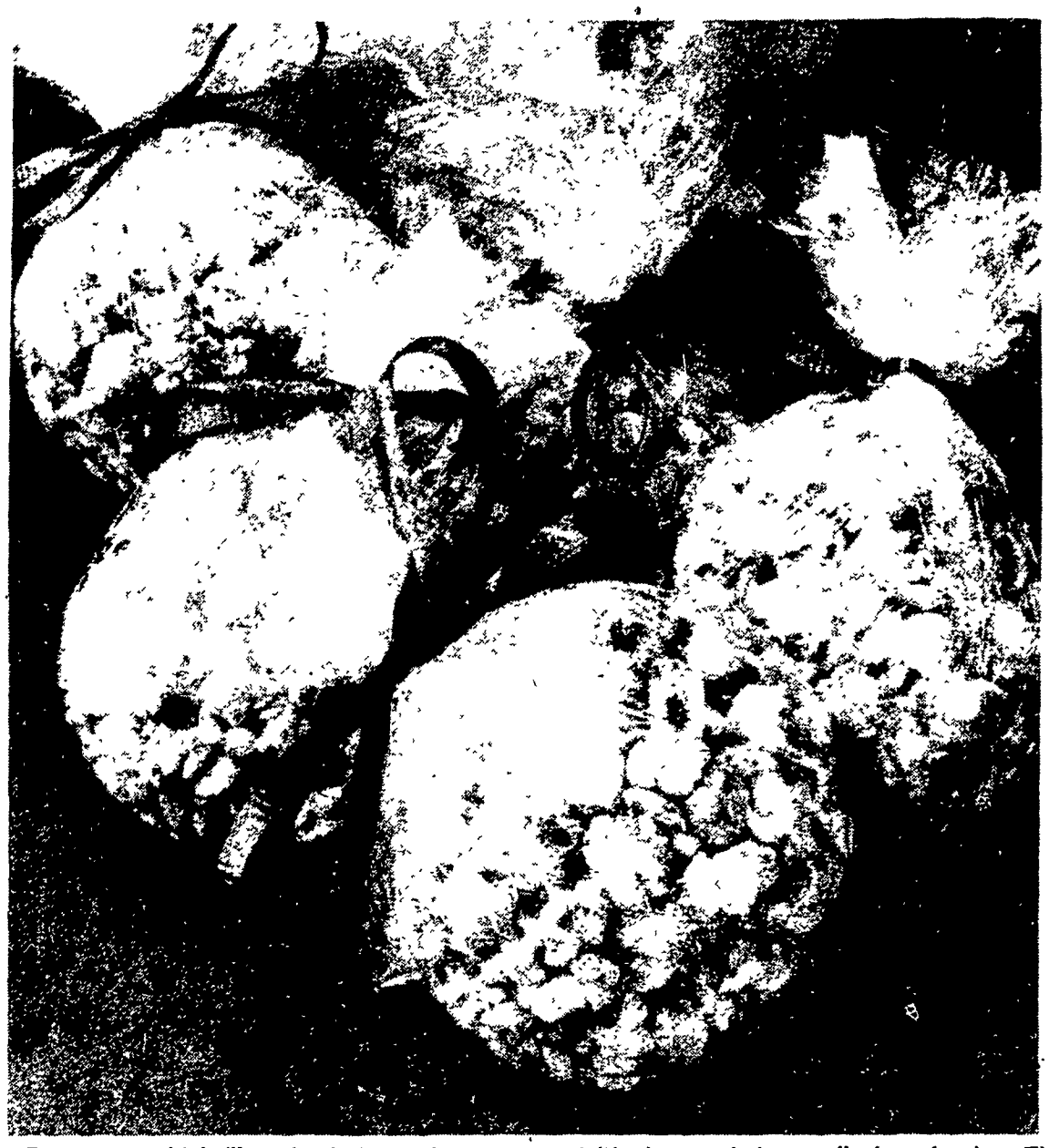
3 qts. popped popcorn
1 c. nuts
1/2 c. butter
1/2 c. honey

Preheat oven to 250 degrees. Place popcorn and nuts in large 4-inch-deep baking pan. Keep warm in oven. Lightly butter a cookie sheet. Melt butter over low heat. Blend in honey until well mixed. Remove popcorn mixture from oven. Set oven at 350 degrees. Pour butter-honey mixture over popcorn-nut mixture and mix well. Spread in thin layer on cookie sheet. Bake 10 to 15 minutes or until crisp. When cool, break or cut apart.

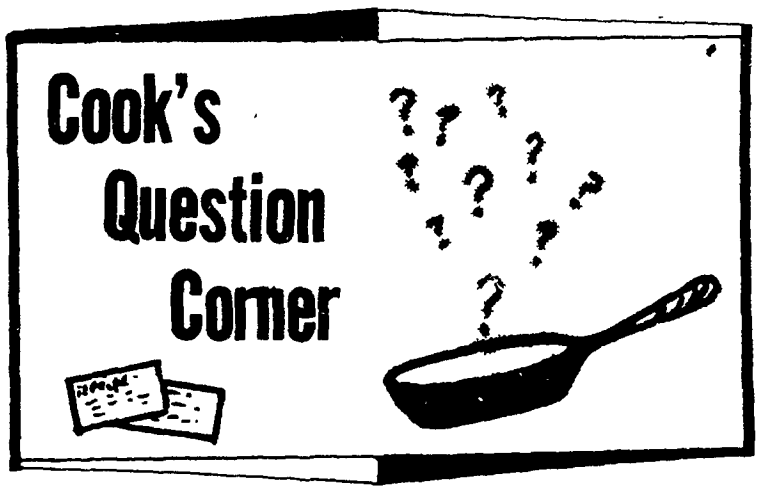
MOLASSES CRUNCH

2 qt. popped popcorn
2 c. whole or chopped nuts
1 1/3 c. molasses
1 c. sugar
2 T. butter
1 T. vinegar
2/3 c. water
1/4 t. baking soda
1 t. vanilla

Preheat oven to 250 degrees. Combine popcorn and nuts in a large, 4-inch-deep, buttered baking pan. Keep warm in the oven. Butter two 8-inch-square baking pans. Mix molasses, sugar, butter, vinegar and water. Cook slowly without stirring, until mixture reaches 250 degrees on a candy thermometer. Add baking soda and stir well. Remove from heat and quickly stir in vanilla. Remove popcorn and nuts from oven. Pour syrup mixture over popcorn and nuts and mix well. Pour into buttered pans. Cut when cool.



Popcorn, a high-fiber food, is perfect for between meal munching and is an added treat at Christmas time. Naturally good tasting, popcorn is considered a wholesome snack by nutritionists and the medical profession. The American Dental Association recommends popcorn as a sugar-free snack.



QUESTION — Would any of your readers have recipes using persimmons? Will be looking for answers!

H. Showalter, Lancaster

QUESTION — Can anyone help to find me a recipe for the egg dressing used on lettuce? Also, does anyone know how to dehydrate potatoes or make hash browns to freeze?

Mrs. Pat Hood
Mount Airy, MD

ANSWER — Naomi Burkholder can find an answer for her recipe request of November 21 (honey-glazed whole wheat donuts) at the end of the recipe section, complements of Dawn Harvey. Thank you Dawn.

ANSWER — For the reader who requested a recipe for Ham Patties comes a recipe from Mrs. Ivan Martin of Ephrata. Thank you, Mrs. Martin.

WANTED — Answers for our recipe requests. Help a fellow cook and reader solve her cooking quests!

Recipe Topics

December	
19	Popcorn favorites
26	Beverages for the holidays
January	
2	Making vegetables exciting
9	Easy chicken dinners
16	Make it with beef

POPCORN PEANUT BRITTLE

1 1/2 c. granulated sugar
1/2 c. dark corn syrup
1/2 c. water
1/2 t. salt
1 qt. unsalted popcorn
1 c. shelled nuts
2 T. butter
1 t. vanilla extract

Combine sugar, syrup, water and salt in a heavy saucepan. Stir on low heat till sugar dissolves. Cook over medium heat until candy thermometer measures 300 degrees or until a small amount of syrup dropped into a very cold water separates into threads which are hard and brittle.

Meanwhile, spread popped corn and nuts into a well-greased pan and heat in pre-heated oven about 350 degrees for 10 minutes.

Remove the syrup from the heat and quickly stir in butter and vanilla. Stir until butter melts. Pour over popcorn peanut mixture and stir. Spread mixture thin on flat surface. Cool. Break into small pieces. Makes 1¼ pounds.

Nancy Lort, Delta

POPCORN ON STIX

28 caramels
2 T. water
2 qt. salted, popped corn

Mix caramels with water in heavy saucepan over low heat. Stir occasionally until sauce is smooth. Pour over popcorn and toss until well coated. Press into oiled 6-oz. frozen orange juice cans inserting popsicle stix before can is full. Push out of cans and wrap in squares of plastic wrap and tie with bits of yarn.

Pauline Moore, Franklin

CHEESE SNACKS

2 qt. popped popcorn
1/2 c. butter
1/2 c. grated American cheese
1/2 t. salt

Spread freshly popped corn in a flat pan; keep hot and crisp in oven. Melt butter and grated cheese and add salt. Pour mixture over corn. Stir until every kernel is cheese flavored.

ORANGE POPCORN BALLS

2 c. sugar
1 can frozen orange juice concentrate
1 can water for orange juice
1/2 c. light corn syrup
1 t. vinegar
1/2 t. salt
5 qt. popped popcorn

Combine all ingredients, except popped corn, in a heavy saucepan. Bring to a boil. Lower heat and cook to 250 degrees on a candy thermometer or hard ball stage. Pour slowly over hot popcorn and mix until well coated. Let stand five minutes. Shape into balls.

Answers for Cook's Question Corner:

HAM PATTIES

2 c. ground cooked ham
1 c. mashed potatoes
1 T. chopped onion
1/4 t. dry mustard
1/4 t. salt
1 T. milk
1 egg, beaten
1/2 c. fine dry breadcrumbs
3 T. fat or oil

Combine ground ham, mashed potatoes, onion, mustard and 1/4 t. salt. Chill about 1 hour.

Shape into patties. Blend milk into beaten eggs. Dip patties in egg mixture and then in crumbs. Fry patties in hot fat until golden brown. Serve plain or with favorite sauce.

Mrs. Ivan Martin, Ephrata

WHOLE WHEAT DOUGHNUTS

1 1/2 c. whole wheat flour
1 1/2 c. regular flour
1 c. sugar
3/4 c. buttermilk
2 eggs
2 T. shortening
2 t. baking powder
1 t. baking soda
1 t. salt
1/2 t. nutmeg
salad oil

In large bowl measure 1/2 cup flour and remaining ingredients except salad oil. With mixer at low speed, beat just until smooth. Constantly scrape bowl with rubber spatula. Increase speed to medium, beat 1 minute.

Stir in remaining flour to make soft dough. Refrigerate dough for at least 1 hour.

On well-floured surface with floured rolling pin, roll dough 1/2 inch thick. Cut out.

Meanwhile, in deep fat fryer, heat 3 or 4 inches oil to 370 degrees. Fry 4 to 5 rings at a time to golden brown.

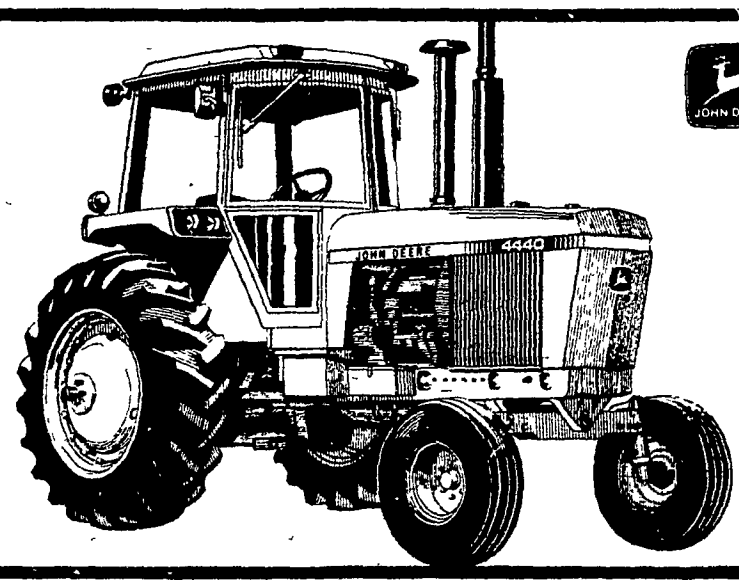
HONEY GLAZE

In small bowl with fork, stir 1/2 c. honey with 2/3 c. powdered sugar until smooth. Spread over warm whole wheat doughnuts.

Dawn Harvey, Nicholson

JOHN DEERE BONUS BONANZA

For a limited time: bonuses of $1,400 to $2,600 on John Deere row-crop tractors . . . $3,200 to $4,000 on 40 Series 4-WD . . . plus waiver of finance



Now through January 30, 1982, buy a new 2- or 4-WD tractor listed here and earn a bonus in John Deere money. After the dealer makes delivery, the bonus money will be mailed to you . . . money you can spend for goods or service in this store.

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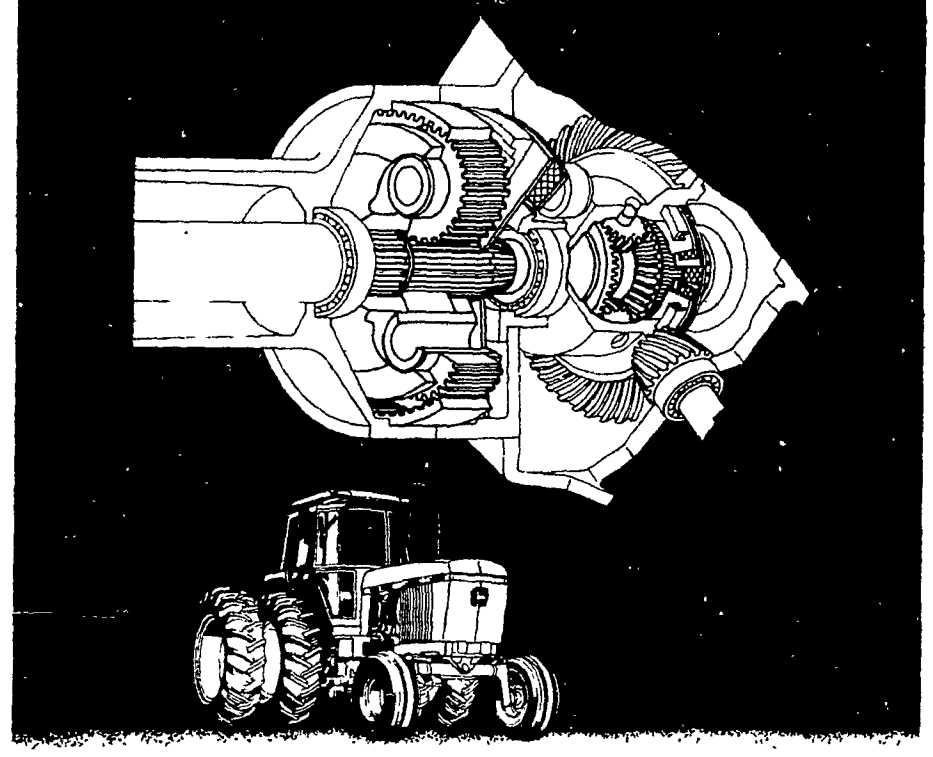
*This finance offer may be withdrawn at any time

John Deere's forward-looking "rear end" design is too tough to top . . . even after 20 years



Many John Deere owners can't remember a time their field tractor didn't have planetary final drives That's only natural, because John Deere hasn't built a big tractor without them for the past 20 years

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John Deere design is still too tough to top even after 20 years

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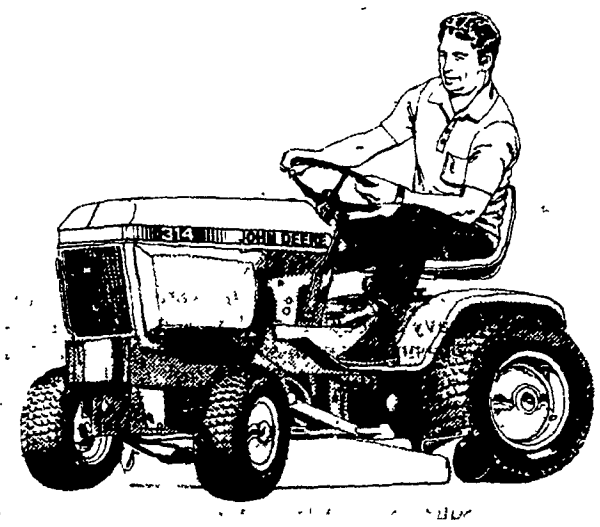

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This "end-of-season" special offer applies to any new John Deere 200-, 300- or 400-Series Lawn and Garden Tractor and all attachments purchased for use with the tractor.

See us now for complete details. Offer expires February 28, 1982.

Ladies Have You Heard?

By Doris Thomas

Lancaster Extension Home Economist

DON'T PLAY SANTA CLAUS TO THIEVES

This is the month to spread holiday cheer and good will to man. But don't let the bustle and the joy of Christmas lull you into thinking that thieves are on holiday too.

An unlocked car full of packages on the seats of floor, for example, is an open invitation to roving thieves. I would like to offer these suggestions to help insure that your gifts will fall into the hands of the people you choose for them:

—Always lock your door even if you'll only be away from the car for a few minutes.

—Be sure all windows are closed.

—When you leave the car, put packages in the trunk and be sure it is locked. Don't tempt thieves by putting your parcels on display inside the car.

—Assuming that personal belongings – and Christmas gifts fall into this category – are stolen from your car, your loss may be covered if you carry a personal property floater insurance policy or if you have a homeowners "package" policy.

—Keep in mind that thefts of personal property from a motor vehicle or trailer – other than a public conveyance such as a bus or a taxicab – may be covered only if the thief forces the vehicle open while all the doors, windows and other openings in the car are closed and locked.

DON'T NEGLECT FOOD SAFETY DURING THE HOLIDAYS

Food poisoning is something we tend to associate with summer picnics, but food bacteria are just as busy during the Christmas holidays as they are on the 4th of July.

Christmas is a time for cooking special foods, entertaining guests and in general, changing from the everyday routine. Don't let this carefree atmosphere trick you into forgetting food safety precautions.

After you finish your holiday shopping, rush your food home and put it in the refrigerator or freezer. Don't let groceries set in a sun-warmed car while you run other errands.

Remember to keep hot foods hot – above 140 degrees Fahrenheit – and cold foods cold – below 40 degrees Fahrenheit – to prevent bacteria growth. To put it as simply as possible, if you aren't going to serve a food within an hour after cooking, refrigerate it.

Wash your hands with soap and water before handling any foods. After you handle raw meat, fish, poultry or eggs, wash your hands, utensils and flat surfaces with soap and hot water before working with other foods. Remove stubborn bacteria from a cutting board by scrubbing it with soap, rinsing it in hot water and then applying a solution of 1 teaspoon chlorine bleach to 1 quart of water.

Roasting a turkey for Christmas? Cook it completely to an internal temperature of 170 to 175 degrees Fahrenheit. Never partially cook a turkey with the idea of finishing the cooking later. Bacteria can survive in partially cooked poultry and "staph" bacteria may produce toxins.

Remember to cook the turkey stuffing thoroughly, too. If you plan to stuff the turkey, do it just before you put the turkey into the oven. Better yet, cook the stuffing separately, basting occasionally with the turkey juices.

Cool leftovers quickly and put them in the refrigerator. Don't hold any broth or gravy for more than a day or two. To serve again, reheat and boil for several minutes before serving – then serve hot.

Popcorn ball maker simplifies treats

LANCASTER — Children won't scream for cookies this Christmas when holiday treats include delicious pop corn balls make quick and easy with a pop corn ball maker.

This handy gadget, made of durable molded plastic, takes the mess out of shaping pop corn balls by hand. And the pop corn ball maker is simple to use.

Just scoop your favorite pop corn ball mixture in the larger half of the ball maker and press firmly with the small half. Presto...the result is a perfectly round pop corn ball, ready to eat.

To order the pop corn ball maker, send $1 or $1.75 for two with your name, address and zip to: Jolly Time, P.O. Box 178, Sioux City, Iowa, 51102. Orders shipped postpaid the same day!

The popcorn ball-maker shapes and forms perfect popcorn balls. Popcorn balls make great stocking stuffers and add an individual touch to Christmas presents.

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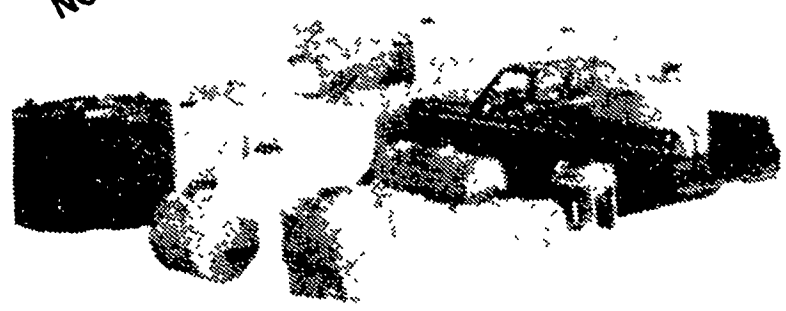

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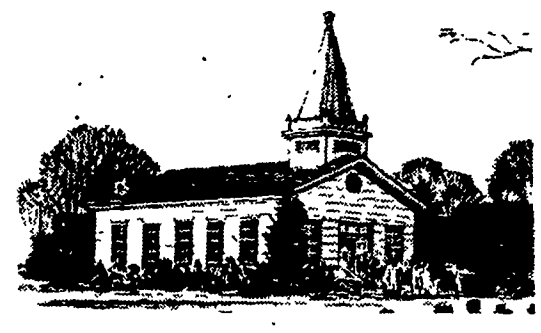

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Admiring the Christmas tree

LANCASTER — The first Christmas trees in America were attributed to the celebrations of the Hessian soldiers during the American Revolution, says Greta C. Vario, Extension home economist with the Penn State Extension Service. This was the beginning in America but the tradition is founded in ancient times.

Before the Christian era the ancient Egyptians brought green date boughs into their homes to celebrate the winter solstice — the "rebirth" or "triumph of light over darkness."

Later the Romans observed the Feast of Saturn, again at the winter solstice, by raising an evergreen bough to signify the "rebirth" of the sun.

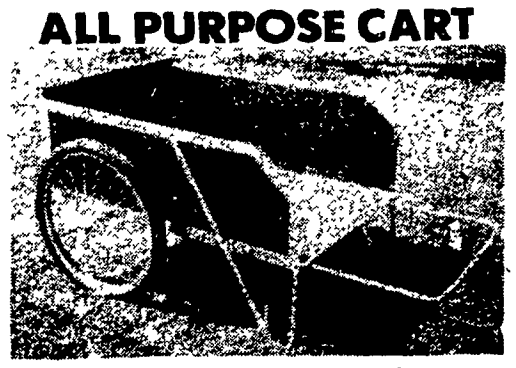
Through the ancient history of other cultures, the bough has symbolized this new hope and it is the evolution of customs that forms the Christmas tree tradition.

The acutal decorating of the Christmas tree and the bringing of it into our homes is attributed to the Germans with the first records appearing in about 1500. One reference from Germany in 1605 tells us that "At Christmas, fir trees are set up in the rooms an hung with roses cut from paper of many colors, apples, wafers, spangle-gold, sugar, etc."

These Germans brought their tradition with them to America and diaries and accounts of the early 1800's tell of their use in eastern Pennsylvania. By the 1840's the tradition was fairly common in Pennsylvania. From Pennsylvania the fashion spread through the east and eventually back to England in 1841.

This year marks the celebration of a 125-year old tradition. In 1856 the first Christmas tree was displayed in the White House by President Franklin Pierce for a group of Washington Sunday School children.

ALL PURPOSE CART



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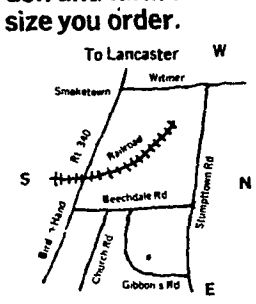

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Farm Women Societies

Lancaster Co. Society 14

Lancaster County Society 14 met on Wednesday, December 9, at the home of Ada Rohrer.

Members answered roll call by telling their favorite Christmas decoration.

Marian Rowe, Miriam Leaman and Jean Rowe presented a play entitled "For Whom the Chimes Ring," with recorded music and reading.

The next meeting will be on January 20 and members will be making cancer pads.

Lancaster Co. Society 22

Lancaster Society 22 held their Christmas meeting at the Lampeter Fire Hall.

Members answered roll call by telling their favorite way to spend Christmas day.

Four members from this society are going to attend the convention in Harrisburg, January 11 and 12.

The next meeting will be held at the home of Mrs. Paul Witmer, Millersville on January 19.

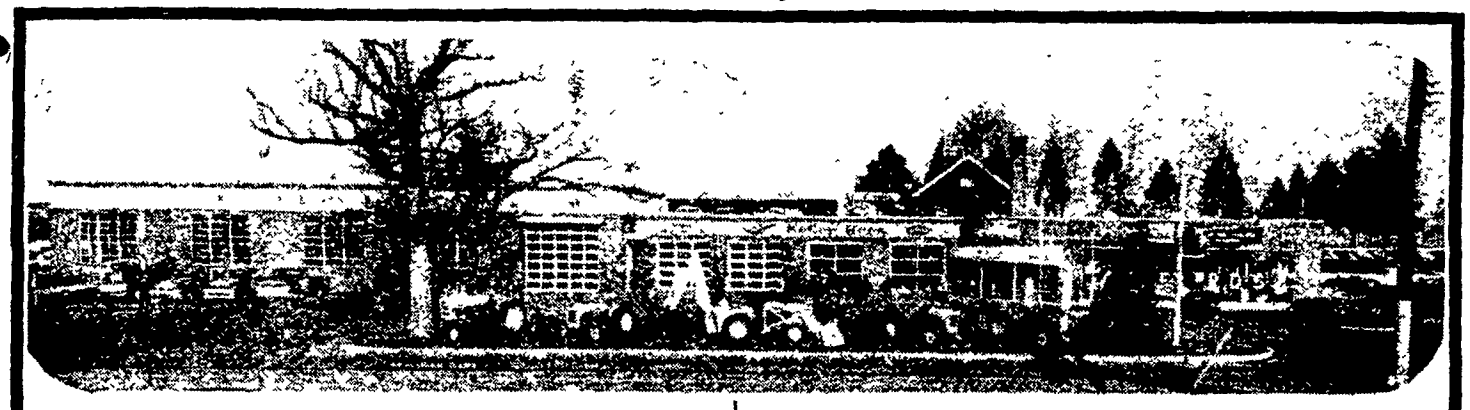
Lancaster Co. Society 29

Lancaster Society 29 met on Monday, December 7 at the home of Marty Bixler.

During the evening, the members divided into three groups and filled Thanksgiving food baskets with groceries and $25 worth of meat. They then were delivered.

The evening program also included a cookie exchange. Each member brought two dozen cookies. Each member took a sample from each kind to take home.

The next meeting will be a fun night at the home of Sue Bixler, January 18 at 7:30 p.m.



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(4) Ford 9N	Ferguson T030
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Ford 960	Massey Ferguson 1100D
Ford 8000 D	Allis Chalmers 190 XT
Ford 740	Massey Ferguson 178 D on metal wheels
Ford 6000	Farmall Cub w/Plow & Cult.
Ford 641 D	Farmall 230 w/Loader
Ford 901 SOS	Kubota B 6100 Hyst. w/ Mower
Ford 2000 D	Kubota B 5100 w/ Mower
Ford NAA	(2) Kubota B 6100 w/ Mower
Ford 4000	Kubota B 7100, 4 WD
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Ford 75	(2) Cub Cadet 1450 Hyst.
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Ford 145 Hyst.	Economy 1614
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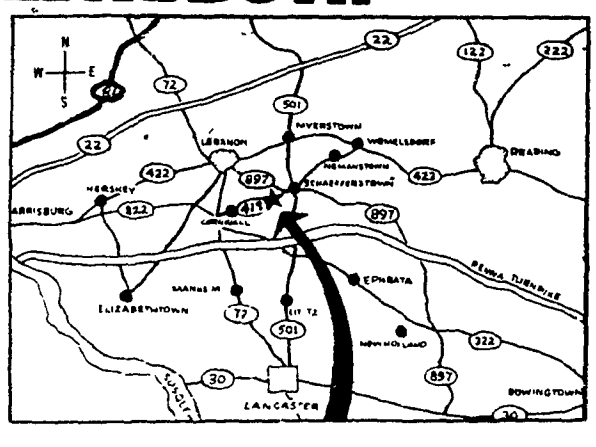

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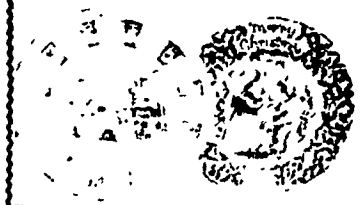

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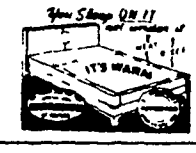

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Kid's Korner

Do you recognize animal tracks?

LANCASTER — An enjoyable part of playing in the woods is the discovery of animal tracks in the snow. Tracks can be found during any season of the year, but fresh, white snow provides an excellent base for them in the winter.

Tracks tell the story of an animal's life in the woods. They reveal where the animal travels, what he eats, and where he sleeps.

It is difficult to find perfect prints that show all details of the animal's foot. Snow may melt, turn slushy, or drift over the track. Parts of the prints may be missing or the impressions may be distorted. These conditions make the tracks hard to read, but often the pattern or arrangement of the prints are more important than the details of the foot.

Here are some common tracks to look for and they are grouped according to the best place to look for them.

Woodland Tracks

Porcupine — These tracks are rarely clear, but are easily identified because porcupines plow through snow and drag their feet. Their trails usually lead from ground burrows or rock dens to feeding areas.

Gray Squirrel — The tracks of the gray squirrel usually lead from tree to tree. Interruptions in the tracks indicate where the squirrel stopped to dig for a buried nut, or some other type of food.

Look for these tracks near farm land:

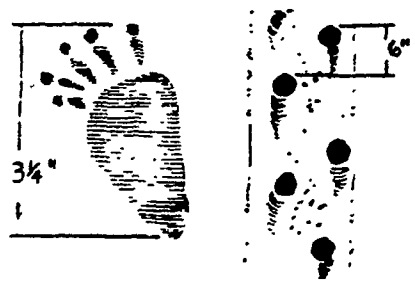
Oppossum — These tracks are most common on open farm land. The best places to look are in old orchards and along paths and roadways. The hind foot of the oppossum has a hand-like thumb which makes this print easy to identify.

Skunk — Even though this animal may be inactive during very cold weather, their tracks may be found in the snow. Skunks sleep in burrows or establish dens under buildings. The prints are found in a diagonal pattern.

Look for these tracks near water:

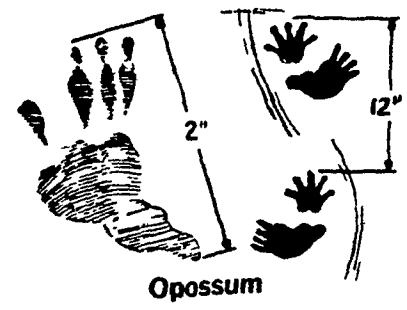
Muskrat — Muskrats like water. They make underwater burrows, dig for the roots of water plants and build houses from piles of aquatic plants.

Raccoon — Look for raccoon tracks along streams and marshes, and other water areas. The raccoon is also an excellent climber, so watch for prints at the base of trees.

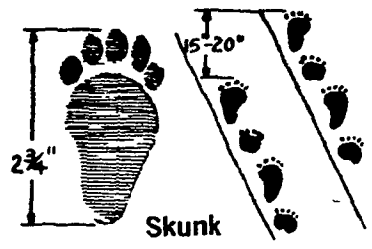


Porcupine

Squirrel

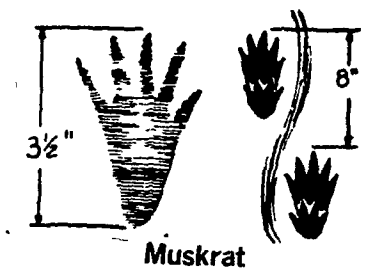


Opossum



Skunk

Raccoon



Muskrat

Make plaster casts of animal tracks

If you follow this procedure, you can take a plaster cast of an animal track in the soil or snow. Try to find a clear, clean print, and remove all leaves and branches around it.

1. You will need 2-inch strip of cardboard and a paperclip. Make a circle with the strip and secure it with the paper clip. Press this into the soil or snow around the print to make the form.

2. Mix about 1 2/3 parts plaster of paris with 1 part of water to make a thin batter. Snow will melt when the plaster is poured unless you use lots of snow to cool the plaster, or dry dust plaster of paris in the print, to make a base. Pour the mixture carefully over the print.

3. When the plaster is hard, depending upon your batter, lift the cast and carefully remove the cardboard. Clean it gently with a brush. This is a negative cast.

4. To make a positive cast, coat the negative cast with vaseline, and repeat the casting process, in an old container.

5. When the plaster is hard, remove the negative carefully. You now have a positive cast which is a duplicate of the original print.

COLOR THIS!

1.	BLACK	6.	ORANGE
2.	RED	7.	GREEN
3.	YELLOW	8.	LT. BROWN
4.	BLUE	9.	LT. BLUE
5.	BROWN	10.	LT. GREEN

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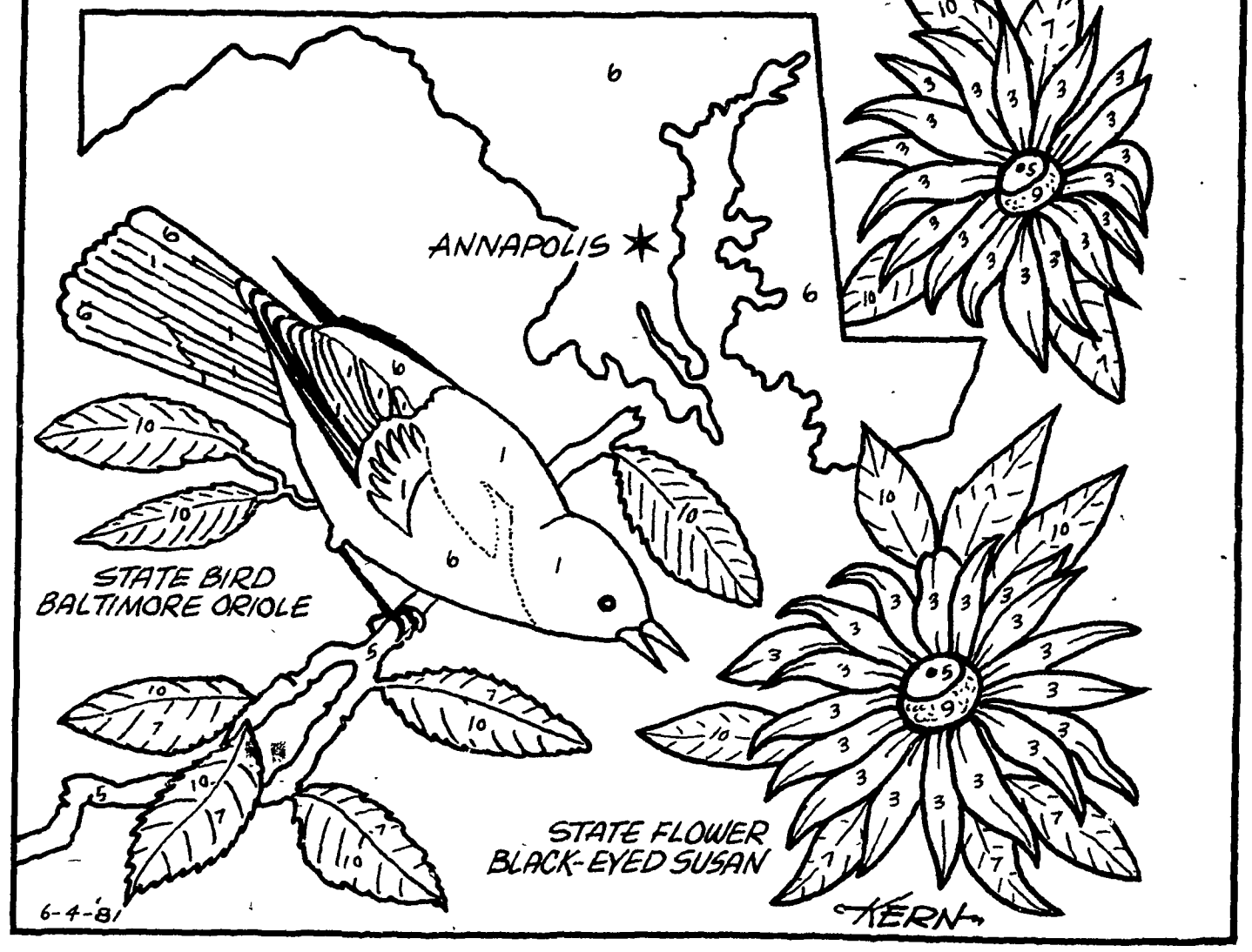


Decorate with holly

LANCASTER — "Decking the halls with boughs of holly" is a custom several thousand years old. The ancient Romans, Greeks, and the Druids used holly in decorating their homes.

According to James J. McKeehen, Delaware County Extension agricultural agent, the Druids of pre-Roman Britain believed that the holly was a sacred tree and that the sun never deserted it. Holly growing in a deciduous forest and remaining green all winter was most conspicuous and indeed, somewhat miraculous.

It was a custom to decorate the interiors of dwellings with evergreens in which the woodland spirits could take refuge from the rigors of winter.

During Roman times, wreaths of holly were sent to newlyweds as tokens of good will. Beginning December 17 holly also was used during the festival of Saturn, the Roman God of sowing and husbandry.

Today, we decorate our homes with holly during the Christmas season. In fact many historians believe that the word holly is a corruption of the word holy — some English writers of the mid-1500's called the plant "holy tree."

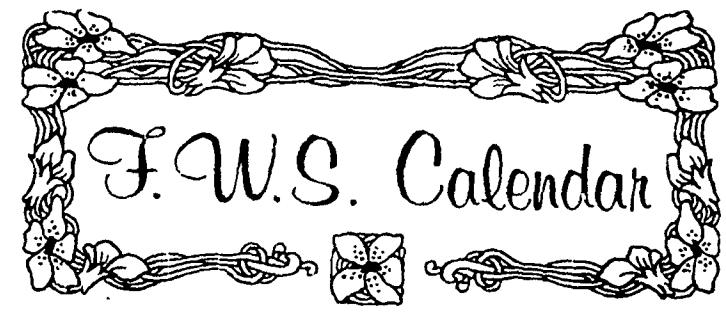
Writings from 1598 reveal that homes, parish churches, street corners and marketplaces in London were decorated with holly during the Christmas season. Along the countryside even the stables and beehives were decorated with a sprig of holly.

Decorating with holly during midwinter also was a custom of the Chinese who used their native holly for decorating temple courts and large halls during their New Year's festivals in February.

The American Indians also made use of holly for decorations. In areas where American holly was native, the berries were dried and used for decorations on clothing.

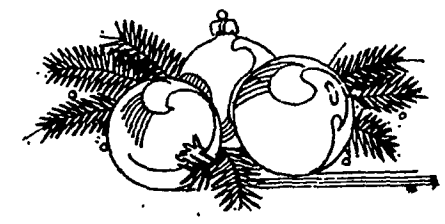
Unfortunately, in the past, many hollies were destroyed by plunderers cutting wild holly with little concern for the owner of the tree. In recent years, holly orchards have been developed in the Pacific Northwest where English holly will grow. Other holly orchards have been developed in the Southeast where American holly or other hollies can be grown.

Some of the better managed orchards are reported to yield up to 3,000 pounds of holly cuttings per acre for sale to the Christmas trade.



Saturday, December 19
Lancaster Society 3 meets with Deb and Jane Gregory to entertain children and to have a gift exchange

Monday, December 21
Lancaster Society 31 meets for a Christmas party



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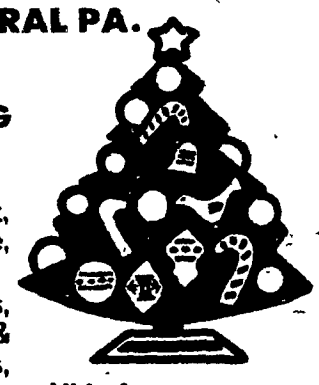

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available	Hutch Top	209.95	149.95	128.00
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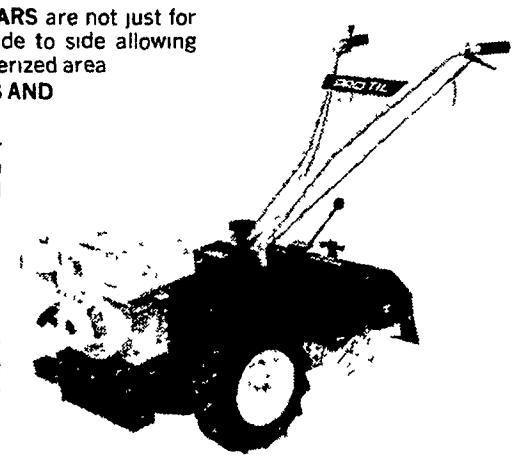

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On being a farm wife -And other hazards

Joyce Bupp

Dear Santa,

Well hello old friend - it seems so long since we last heard from you. Been busy? I should have written sooner, but hope this letter reaches your workshop in time.

I'll get right to the point.

My supply of socks and slippers is adequate, dear Santa, and I just bought a pair of warm, wooly mittens - on sale. The old bicycle is rusty, but serviceable, except for the day we blew out the tire with the air compressor, and frankly, I don't fit too well into shiny, new red wagons.

There's even an abundant supply of my familiar, hauntingly feminine fragrances: Cow Barn No. 1, and Essence of Wood Smoke.

Actually, Santa, my list of needs this year is a bit more complicated. I hope it doesn't present too much of a problem.

First, a batch of time would come in awfully handy. There just never seems to be enough of that commodity to stretch to everywhere I need it. Just a little extra to stash away for walks across the fields, chat with neighbors, time to write a letter or two, and to do more things with the children, would be so useful. If you could spare just a smidgeon, I'd be ever so grateful.

And might you have a spare package of patience lying somewhere in the corner of your workshop? Mine is getting pretty threadbare these days. Maybe its because I've arrived at that combination of approaching middle age and teenagers.

Please, a giant, economy size of patience; and don't feel obligated to wrap it.

I'm also hoping to find a bag a humor hidden under the tree. It would go a long way on those days when the heifers plunder the fence, the water pump rolls over and plays dead, or the barn floor supports collapse under a full mow of hay.

Could you tuck into my stocking an atomizer of appreciation for the world around me? That would be so handy for seeing the sunrise during the early morning off-to-school madhouse, the fluffy white clouds against an azure sky that I so often miss dashing from barn to house to car, and to remember to rejoice in the love and caring of family and friends.

And finally, Santa, do you happen to have a little item called a "lip button?" They must make them somewhere because I remember my Mom telling me long ago on occasion to "button my lip."

I still need one, especially when I find myself yelling "If I have to tell you to pick up your clothes one more time I'll scream" or when that "I told you so" slips out again.

Thanks for your consideration Santa. Now bundle up snugly against the cold, and don't stay out too late on Christmas Eve.

Love,
A Farm Wife

Think toy safety

LANCASTER — How safe is that cute little toy dog with the pull string or the red bicycle that Johnny will grow into? They may seem harmless but actually may be a threat to your child's safety, says Billie H. Frazier, human development specialist for the Maryland Extension.

The U.S. Public Health Service says many children are injured each year in toy-related accidents. Frazier comments it is the responsibilty of each parent to choose their children's toys carefully.

Frazier stresses, the age, size, strength, maturity and skill of the child must be considered before buying a toy. She adds, a toy which is safe for one child may be dangerous in the hands of another unsupervised and less skilled younger brother or sister.

Frazier recommends the following guidelines when purchasing your children's toys:

—Avoid toys that have sharp points or edges.

—Make sure that plastic non-breakable material is used in windows of toy trucks, cars and airplanes.

—Avoid toys that are of poor construction.

—Avoid toys that have detachable parts, such as button eyes. Dolls with embroidered features are safer.

—Check fabrics for flame retardant labels. Also look for "washable" and "hygenic materials" labels.

—Choose only toys appropriate for the child's age and development. Many toy manufacturers are putting age group labels on their products.

—Certain toys should be bought for older children only. These toys include chemistry sets and electrically operated items.

—Avoid toys that make excessive noise. Even a cap gun beside the ear can cause damage.

Toys for toddlers should be chosen with extra care, advises Frazier. Parents need to check toys for infants and very small children on these points.

Make sure it:

—Is too large to be swallowed.

—Does not have detachable small parts.

—Is not easily broken into small pieces or leave jagged edges.

—Does not have sharp edges or points.

—Has not been put together with straight pins, sharp wire, or nails that can easily be pulled out.

—Is not made of glass or brittle plastic.

—Is labeled "non-toxic."

—Does not have parts that pinch fingers and toes or catch hair.

—Does not have a cord or string over 12 inches in length.

—Avoid painted toys for children who put things in their mouths.

Toy safety does not end with the final purchase. Children should be taught the proper use of their new toys.

Frazier comments, "There is no substitute for parental interest and supervision. Any toy can be dangerous, especially if it is misused."

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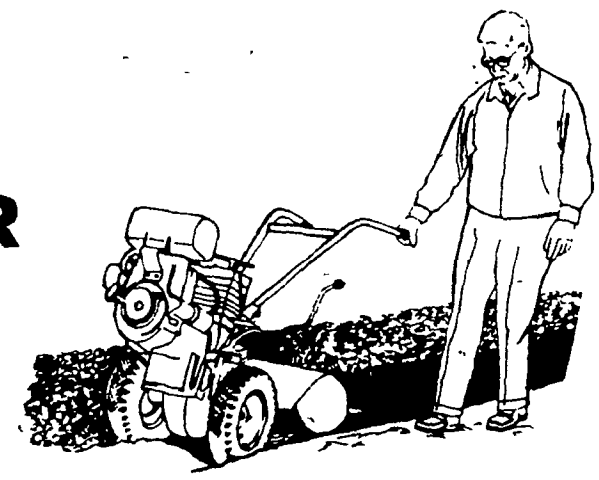

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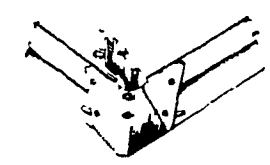

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Local wines capture awards

BAINBRIDGE — The J. Richard Nissley family has two more medals to add to their collection for award-winning wines following the Sixth Annual Wineries Unlimited Conference held at Americana's Host Farm in Lancaster on December 2-4.

Millrace White and Cellar Reserve Blanc wines were each awarded a bronze medal at the Thursday evening banquet of the conference. They were produced at the Nissley Vineyards winery near Bainbridge, from French-hybrid grapes grown during 1979.

"We were very pleased to receive the medals," said owner and winemaker Dick Nissley. "The competition was much tougher this year," he added.

Out of a record number of 792 wines judged at the Eastern Wine Competition, only 180 were awarded medals, 19 of them gold. One hundred wineries from 22 states east of the Rockies and two provinces of Canada entered wine in the competition.

While Millrace White was one of seven specially selected wines served at the five-course banquet, Nissley's apple wine was also served — but not in a glass. It was an ingredient in the Roast Tenderloin Normandy, developed by Steve Dumas of the Greystone Inn at Ithaca, New York, who acted as chef for the conference.

Last year, Nissley's big winner was Aurora 1979 which received a gold medal, while seven other Nissley wines received silver or bronze medals.

One of Nissley's vinifera wines, recently was served at the National Museum of American History in Washington, D.C.

The occasion was a luncheon held on November 4 for First Lady Nancy Reagan prior to the ceremony where she presented her Inaugural Ball gown to the Smithsonian Institution.

Distribution to six wine shops in the Washington area is handled by Nissley's daughter Mary Lee. "We are gradually expanding our market," she commented. "We also hope to establish some wine shops soon under the new Pennsylvania legislation."

Recently passed House Bill 357 permits a Pennsylvania wine producer to establish three locations for wine sales in addition to the winery.

Visitors are welcome at the Nissley winery located near Bainbridge. The stone-arch winery, built by Dick Nissley and his son John, houses the large stainless steel tanks used for fermenting and storing the wines.

A tour of the winery also includes the vineyards tended by John and a sample tasting of Nissley's award-winning wines.

Making a will

LANCASTER — Ask any person you happen to see about the need for a will and most people will reply, "Sure, it's a good idea, everybody should have one."

What is a will? Essentially it's a legal document which says who is to receive any portion or all of your estate or personal property. In addition, you can name a personal representative to act on your behalf during the estate settlement and, if necessary, a guardian for any minor children. If the minor children are to receive property from the estate, a guardian of their property can also be named.

What if you die without a will? In this situation, your property will be distributed according to the Interstate Law of Pennsylvania. This is a schedule set up by the legislation for the distribution of the deceased's property.

"Generally, this schedule follows family lines in determining where the property is to go," says John Becker, Penn State assistant professor of agricultural law Extension.

For example, if a husband dies owning a $60,000 certificate of deposit in his own name, and he is survived by his wife and their two children, then his estate, after the payment of debts and expenses, would be distributed in this manner:

—The surviving spouse would receive $30,000 plus one-half of the balance of the estate. The remainder of the estate would be shared equally by the two children.

—But if the children were children of a prior marriage of the deceased husband, then:

—The surviving spouse would receive only one-half of the estate.

—The remainder of the estate would be shared equally by the two children.

This is but one example of how the Interstate Law provides for the distribution of an individual's estate. The major advantage in having a will prepared is that the individual concerned determines who will receive his or her property after death.

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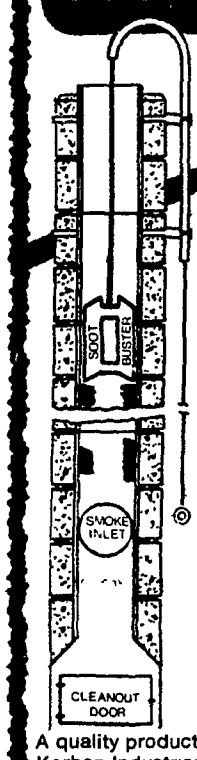

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Myer heads Conrad Weiser FFA alumni

ROBESONIA — J. Hershey Myer Jr. has been selected as Chairman of the new Conrad Weiser FFA Alumni Association.

Other officers include Roland Feeg, vice chairman; Donald Feeg, secretary; David Schaeffer, treasurer; and members of the Alumni Council who serve as the Executive Committee, Debbie Miller, Dennis Sattazahn and Kevin Sattazahn.

Membership in the new FFA alumni group is open to all former active, collegiate or honorary FFA and NFA members, present and former professional vocational agricultural educators, parents of FFA members and others interested in the FFA.

Persons interested in joining or acquiring further information should contact Stephen S. Miller, advisor, at the Conrad Weiser High School, R1, Robesonia, Pa. 19551.

"We feel that if the concern of one generation for the next can help to improve the position of the next generation, then we can build a better tomorrow for agriculture and the FFA in our area," Myer said.

"We are not in the process of building this new organization and it is hoped that every former FFA member will do his or her share to help make it a success," Donald Feeg added.

The new alumni group will work to promote a better understanding of the agricultural industry and provide support for the ag educational program.

Officers of the new Conrad Weiser FFA Alumni Association include, from the left, J. Hershey Myer, chairman; Roland Feeg, vice chairman; David Schaeffer, treasurer; and Donald Feeg, seated, secretary.

Jr. officers elected

MECHANICSBURG — Junior officers were elected and chapter farmer degrees awarded at a recent meeting of the Cumberland Valley FFA.

Junior officers this year include president, Mike Brymesser; vice president, Jeff Shughart; secretary, Chris Hopple; treasurer, Wendy Bretz; reporters, Tim Armstrong and Ray Yost; chaplain, Lynn Nester; historian, Tom Gordon Jr; Advisor, Ed Meyer; Parliamentarian, Randy O'Boyle; sentinels, Dave Fureman and Eric Nace.

Receiving their chapter farmer degree were Tracy Brackbill, Mike Brymesser, Dave Fureman, Tim McCartney, Ed Meyer, Eric Nace, Jeff Shughart, Steve Heisler, Scott Duryea, Mike Kennedy, Tony Hock, Alan Haulman, Jeff Gill, Frank Shoop and Bill Hollar.

Agronomy winners named

ELVERSON — Members of the Twin Valley FFA Chapter recently were among the top placers in a three-county area agronomy contest.

Top scorer in the contest, which included seven FFA chapters from Berks, Lebanon and Schuylkill counties, was Wade Bernard, son of Mr. and Mrs. Charles Bernard, R2, Elverson.

Dave Noyes, of Twin Valley, placed second and Kevin Griest was fourth among the 27 contestants. The Twin Valley team also placed first.

Yields ranged from a high of 168 bushels to a low of 107 bushels, with an average of 134, in the corn test plots of the Twin Valley FFA Chapter this year. A total of 40 varieties from 11 companies were planted in the tests.

Individual test results are available from the Chapter at the Twin Valley High School, R2, Elverson, 19520, or by calling (215) 286-5911.

2 vo-ag teachers attend talks

ATLANTA, GA. — Bruce Lemmon and Frederic Stillwagen, vocational agriculture teachers at Cumberland Valley High School and Lehigh County Vocational-Technical School, served as official voting delegates from Pennsylvania at the 33rd annual National Vocational Agricultural Teachers' Association (NVATA) convention.

The convention ran concurrently with the 75th annual convention of the American Vocational Association.

Attending were approximately 500 agricultural educators and more than 8,000 vocational educators.

AVA membership includes nearly 300,000 vocational educators from throughout the country. NVATA membership affiliated with the AVA Agricultural Education Division includes more than 10,000 vocational educators in agriculture.

Groundwater heat pump project thrives

(The following is reprinted from the December issue of Penn Lines, the monthly publication of the Pennsylvania Rural Electric Association.)

HARRISBURG — Earlier this year, Allegheny Electric Cooperative, Inc., entered into a joint research project with the Electric Power Research Institute of Palo Alto, California, to determine how efficiently groundwater source heat pumps perform when installed in rural residential applications in the northeastern United States.

As you know, groundwater heat pumps operate by extracting heat out of groundwater for use in heating homes. Groundwater is pumped out of an existing well and is circulated through the heat pump heat exchanger and eventually returned to the ground, typically through a reinjection well. Assisting Allegheny in the project are Valley Rural Electric Cooperative and Bedford Rural Electric Cooperative. Two of their members will have the tests performed in their homes.

Briefly, the research project entails installing groundwater heat pumps in the homes of two members, installing instruments and collecting data to analyze the systems' performance for a comparison with other types of heating systems.

To date, the heat pumps have been acquired and installed, the ductwork and conventional heat sources modified and the instrumentation systems installed.

As is often the case in research, installation of a sophisticated data collection system necessary to produce practical information has taken a substantial period of time to perfect.

One practical result of the work to date has been learning that groundwater head pumps vary widely in their requirements for groundwater. This fact has already limited the effectiveness of two of the original three site selected. This requires either changing the heat pump and heat exchanger or modify the well to increase the amount of water the well will produce.

In one case, PREA successfully drilled a new well which produced sufficient water for the unit. In the other case, it was decided that another mode of heat exchange might be used because of the limited water availability.

In this case, PREA decided to "close the loop" on the water system, sending the chilled water which exits the heat pump back down a vertical pipe to the bottom of the well, allowing the water to slowly reascent inside a larger pipe.

This will allow the chilled water to be warmed by the heat in the ground. After the chilled water is warmed, it is returned to the surface for reinsertion into the heat pump for another cycle.

This "ground-coupling" technique is of great interest in areas where there is little water availability. Allegheny is currently negotiating with EPRI for additional research funds to explore this area.

The house in question is a residence adjacent to the Valley REC headquarters outside Huntingdon. Allegheny recently conducted a test to help predict the effectiveness of such a technique before committing to a substantial research project.

Preliminary indications from this test are that, while the site will work, it may not be as effective as a conventional adequately-watered groundwater source heat pump.

Installation of most instrumentation, and data collection and reduction is the responsibility of the University of Pittsburgh. This project is being funded by the Oak Ridge National Laboratories under a contract with the Department of Energy. Richard Dougall, an expert in instrumentation for heating, ventilating and air-conditioning systems, and his staff, have worked diligently to perfect the instrumentation.

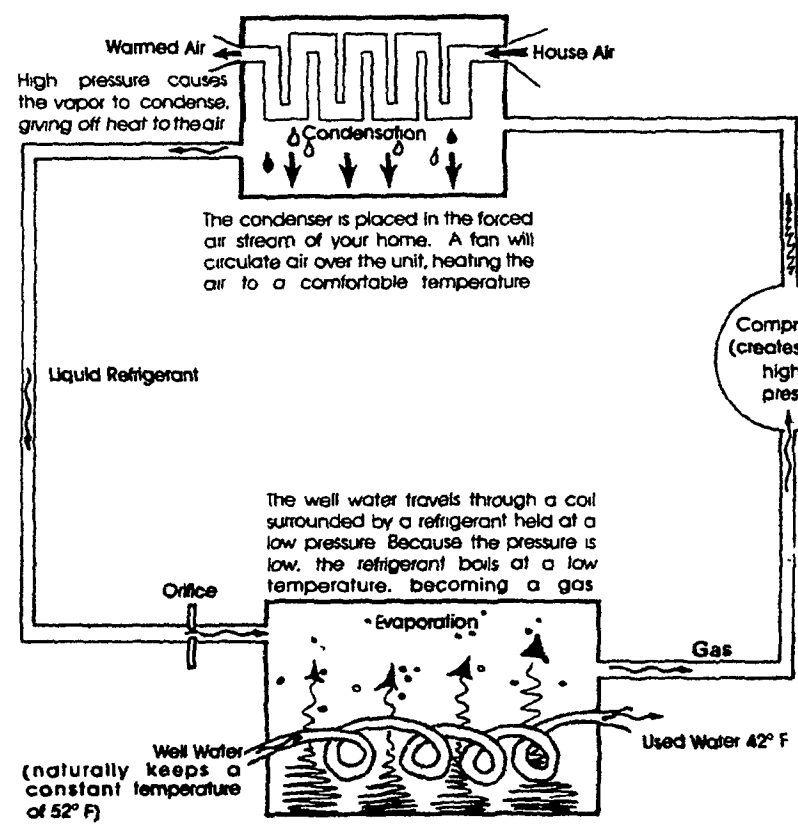
The data collection system consists of a mini-computer. Picture the surprise of visitors to these homes when they enter the study or workroom and find a small computer perking along, gathering data from perhaps 30 instruments every five or ten seconds.

The data is recorded by computer on a magnetic tape cartridge which is removed weekly and forwarded to the University of

(Turn to Page B15)

Conceptual Diagram of the Groundwater Heat Pump

This diagram will give you a basic idea of how a groundwater heat pump can create warm air from cool well water.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Compressor (creates high pressure)
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Orifice
Evaporation
Gas
Used Water 42° F
Well Water (naturally keeps a constant temperature of 52° F)

Farm work force changes in last decade

COLLEGE PARK — During the past decade, from 1967-69 to 1977-79, the hired farm workforce has changed in many important ways. Whereas the total number of hired farmworkers decreased by about 6 percent and the number of "Blacks and Other" by over 40 percent, the number of White farmworkers increased by 5.4 percent, according to a report from the University of Maryland.

There was a significant and substantial increase in the number of younger adult hired farmworkers in the age groups 18-24 and 25-34. During the period 1967-69, 32 percent of the hired farmworkers were between the ages of 18 to 34; the 1977-79 average was 46 percent. Hired farmworkers in all other age groups declined.

The number of farmworkers declined in all regions except the North Central. The South continues to hire the most farmworkers, 41 percent, and the Northeast Region hires the least at 7 percent.

The proportion of hired farmworkers living on farms has decreased from 65 percent in 1949 to only 17 percent in 1979. However, there has been a gradual shift away from casual hired farmworkers (less than 25 days) to regular farmworkers (150 days and over). While the percentage of casual hired farmworkers declined from 44 to 36, that for regular workers increased from 20 to 27.

The proportion of nonmigratory workers gradually increased from 86 percent in the early 1960's to 92 percent in 1977-79; while that of migrants fell from 14 to 8 percent over the same period. During the 10-year period, the number of migrant farmworkers declined by almost 25 percent.

Farm family employment decreased during the seventies, while farm employment stabilized. As the number of farms decreases and their size increases during the eighties, it is expected that hired labor will make up a greater portion of farm labor.

Factors which will affect actual levels of hired farm labor in the 1980's include: technological developments, farmworker programs, immigration policy, and the relative prices of major farm inputs, especially energy.

Be aware of wind chill factor

LANCASTER — Wind chill factor is the combined effect of wind and cold. A very strong wind combined with a temperature below freezing can have the same chilling effect as a temperature nearly 50 degrees lower with no wind.

For example, if the outside temperature is 20°F. and the air is calm, the wind chill is the same as the temperature - 20°F.

But with the same temperature and a 30 mph wind, the effect on your body is the same as if the temperature were -18°F.

A strong wind can make any winter temperature "chilling." Anyone who is outdoors during low temperature and strong winds will be more easily exhausted and more subject to frostbite or even death. You should also consider the effect of the wind chill factor on livestock.

Other terms that are frequently used in winter weather bulletins:

Ice:

Freezing rain...Rain that freezes on impact.

-Ice storm or silver thaw...Heavy glaze of ice.

-Sleet...Ice pellets that bounce on impact.

Snow:

-Heavy Snow...4 or more inches during a 12-hour period or 6 or more inches during a 24-hour period.

-Blowing and drifting snow...Falling or loose snow on ground and strong winds.

-Drifting snow...Snow blowing into sizeable drifts.

-Ground blizzard...Combination of blowing and drifting snow after a snowfall.

-Blizzard...Blowing or drifting snow, temperatures of 25 to 30°F. and wind speeds of 50 to 60 mph.

-Snow squalls...Brief, intense snowfalls with guesty surface winds.

Cold:

-Cold wave...Temperature drops 20°F. or more during a 24-hour period.

Pump project thrives

(Continued from Page B14)

Pittsburgh where the data is stored on a large computer.

By collecting such a large quantity of data, PREA will have confidence in the final analysis which will tell precisely how much energy these systems will save.

This information will be extremely helpful, not only to Pennsylvania cooperative members but also to our national program to conserve energy. What is particularly gratifying is the cooperation of the members in participating in the effort, side by side with the staffs of Allegheny, Valley, and Bedford in a true spirit of cooperation.

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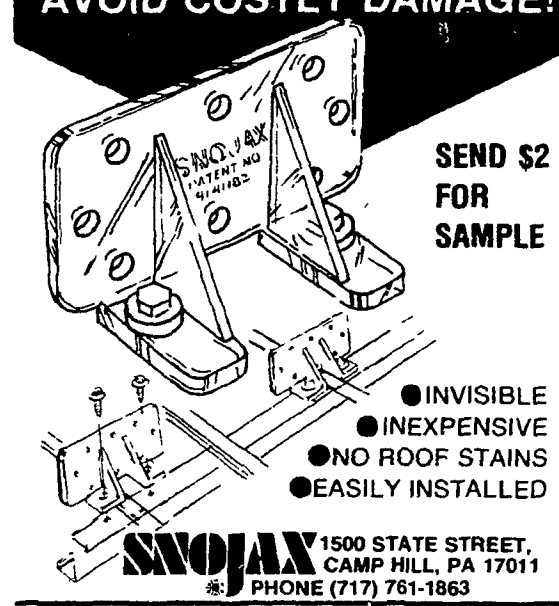

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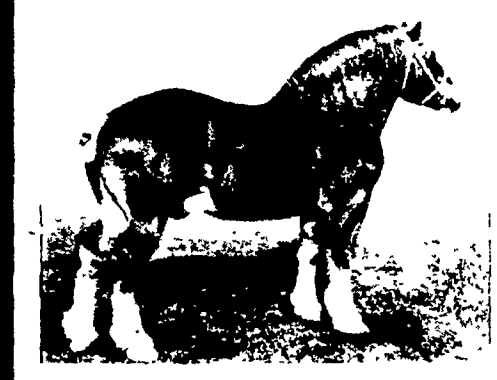

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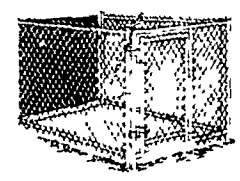
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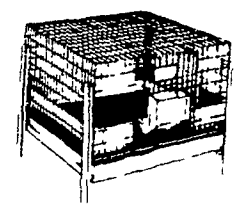
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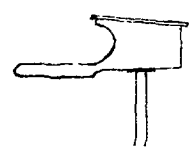
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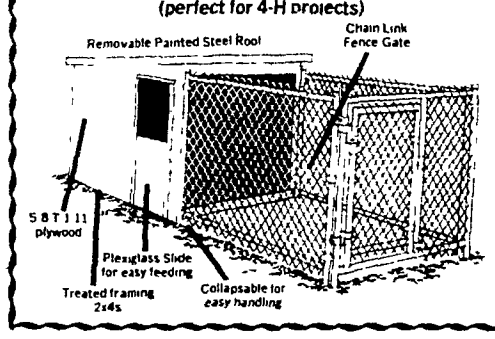

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Dawn Raubenstine, center, earned top honors at the Hanover Club's annual capon round-up. The Grand Champion capon sold to Mr. and Mrs. Burton Gillespic Jr. of Seven Valleys, for $3.20 per pound.

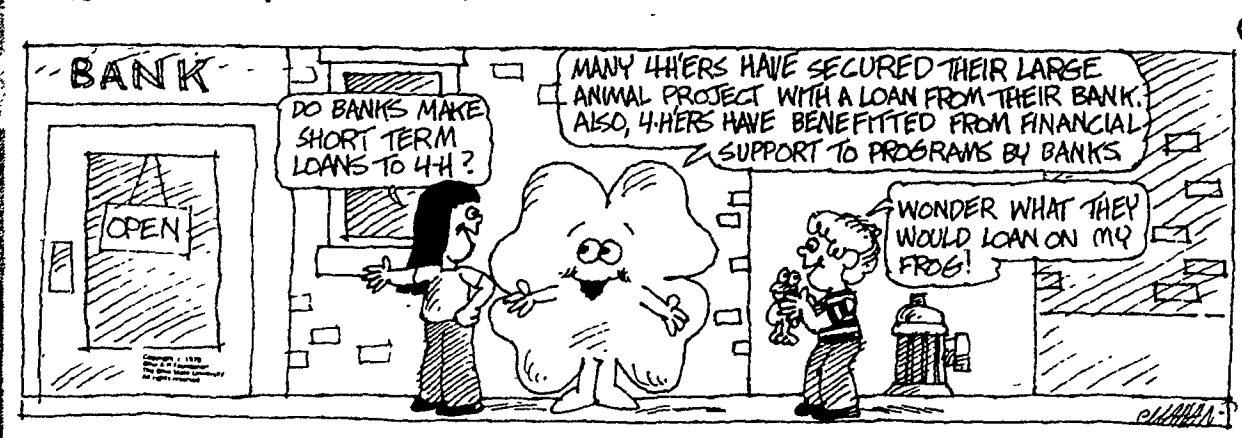
Hanover holds capon sale

HANOVER — The Hanover 4-H Community Club held their annual capon round-up and sale recently with 15 entries.

The Grand Champion award went to Dawn Raubenstine, 15-year-old daughter of Mr. and Mrs. Harold Raubenstine, Hanover.

The capon weighed 11 pounds, 4 oz. and was sold to Burton Gillespic Jr. of Seven Valleys for $3.20 per pound.

Reserve Champion honors went to Michael Kuhn, Spring Grove, who sold his capon for $3.30 per pound to John and Mary Kuhn, Manchester.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Horticulture Club meets

YORK — The York County Horticulture Club met recently in the 4-H Center to elect officers.

New officers include Dawn Raubenstein, president; Ann Hutchenreuter, vice president; Robert Haskins, secretary; Tim Fetrow, treasurer; Lori Sue Gross, reporter; Mike Fetrow, asst. reporter.

Also during the evening, Mrs. Leonard Tomes demonstrated how to make corn husk dolls and corn husk flowers.

Rural crime figures continue growing

LANCASTER — More cars and other motor vehicles are being stolen in Pennsylvania's rural areas than ever before. This year's figure of 40.4 percent is 8.4 percent higher than last year's.

Livestock theft has jumped 16 percent higher than last year's record 81 percent. The other major targets of rural crime are vacation cabins, and gasoline from unlocked tanks and pumps, according to Penn State Extension.

These statistics, taken from the Pennsylvania State Police Uniform Crime Report, prove rural crime in the state is following last year's rising trend, and is still rising drastically. Property offenses are more prevalent, and the chance of having stolen property returned is slim.

Figures from the same report show that of 100 household goods that are stolen, only about nine will be returned. Theft of 100 firearms will result in only 15 on the average being returned. In the categories of televisions, radios, and jewelry, only 8 out of 100 will be recovered.

Don't give in to a false sense of security from believing that crime is a city problem and not a country one. Barbara Woodruff, area community development agent for Penn State Extension suggests these safety and security measures to protect your home and property:

—Install secure deadbolt locks on all exterior doors and windows and use them. Sturdy solid core doors are recommended for exterior use.

—If you plan to be away, make your home look occupied by leaving the drapes in their normal positions, leaving a radio or television playing, and by using automatic timers to turn inside lights on and off.

—At night, use exterior lights around your house, garage, barn, and driveway.

—Get to know your neighbors. Inform each other about suspicious incidents and check on each other's homes when a neighbor goes away.

—Identify your property, such as televisions, stereos, CB's, power tools, and farm equipment by engraving your Pennsylvania driver's license number on the article. Police require positive identification before you can reclaim your property.

—Lock up and light the area around gas pumps and tanks.

—Secure barns, sheds, storage bins, and other buildings, and keep expensive tools and equipment inside.

For more information about crime prevention, contact your local police department, the Pennsylvania Commission on Crime and Delinquency, or your county office of the Pennsylvania Extension Service.

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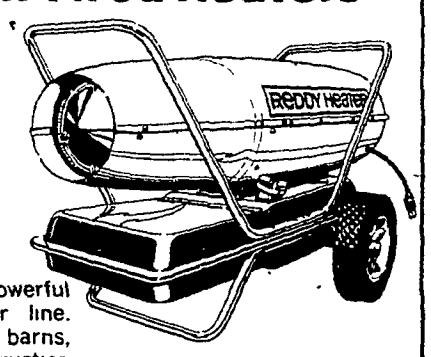

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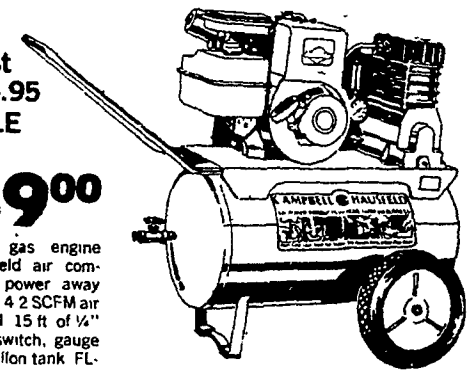

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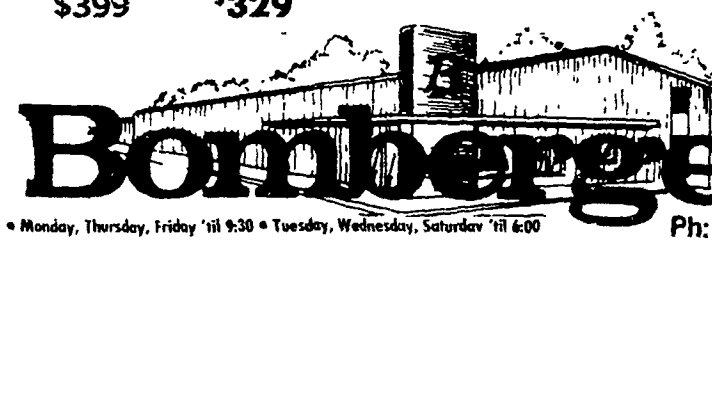

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Muddy Run Park holds Christmas workshop

BY SUSAN KAUFFMAN
Staff Correspondent

LANCASTER — Muddy Run Recreation Park, owned by Philadelphia Electric Company, hosted its first Christmas Decorating Workshop recently.

Chotty Derr, activity director at the communication and nature center at the park, explained that the interest in the workshop well exceeded expectations.

Originally planned for fifteen to twenty-five participants, coordinators had to stop taking reservations for the free workshop when replies reached seventy-five in number. Although advertised as a workshop for decorating with things from nature, the workshop incorporated other handcrafts as well.

Leaders for the evening workshop were two local women: Mary Sue Nissley, R2, Columbia, worked with part of the group making silk and dried flower basket ornaments and Cindy Derr, Holtwood, instructed the rest of the group in making fabric-covered Christmas ball ornaments.

Several local craft persons shared their decorations on display tables and a large cut Christmas tree was also decorated with handmade ornaments designed by Mary, Cindy and others, helping with the program.

Among those which utilized natural items were ornaments made from pine cones cut crosswise to form flowers, milkweed seed pods with figures glued inside, half shells of English walnuts forming beds for tiny, stuffed, grey-felt mice, and other walnut shells used to make a Santa head complete with a felt hat on top and a fuzzy beard at the chin.

Facial features were made from felt, beads, and paint. Wood shaving strips joined at the ends to form a circle made an attractive frame to encase wheat grain heads crossed to form an X.

Other ornaments made from natural materials included small wreaths constructed from sweet gum seed pods and tiny pinecones glued to a cardboard disc and decorated with tiny dried flowers and bows.

To accent tables and mantels with natural materials, Chotty Derr exhibited several ideas. One was a table centerpiece made from an apple which is used as a base to hold sprigs of greens. A candle is placed in the top of the apple to complete the arrangement. The mingling of the pine and apple fragrances add to the holiday atmosphere.

Another idea is to fill a crock to the brim and pile it high with pine cones, then tie a ribbon and bow around the crock.

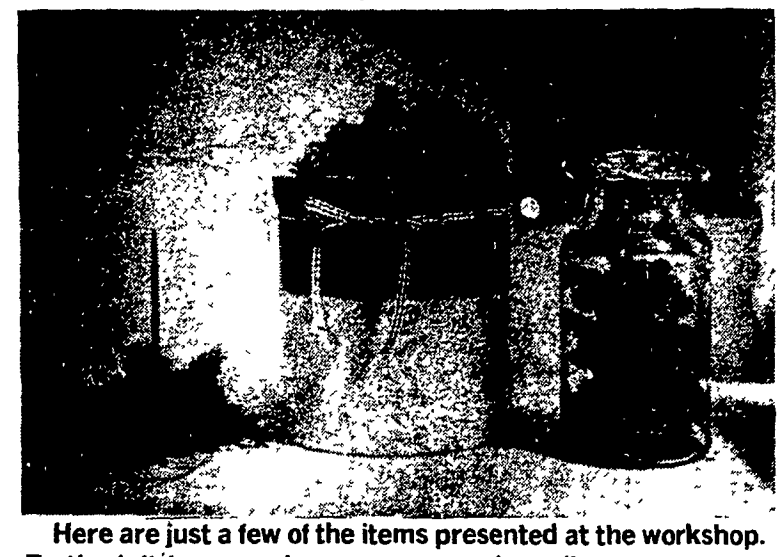
In addition to displaying many ornaments and making one to take home, the workshop also included printed information for using natural materials. Chotty encouraged participants to string popcorn and cranberries for birds to eat outdoors. Other objects from nature which could be used to make tree trimmings and decorations for the house included grasses, feathers, rose hips, ash seeds, tulip seeds, orange peels, acorn caps, and ailanthus stars. Pussy willow buds were used to form tiny mice inside shadowbox ornaments.

Directions for the apple candle holder are:

Materials needed: 1 apple, 1 tapered candle, Evergreen pieces, modeling clay (small amount).

Core hole in apple to fit a standard size tapered candle. Stick several evergreen pieces into apple, making sure all pieces are pointed upward and the apple is completely covered. Stick candle in apple. If necessary, use a small amount of modeling clay to hold in place. The candleholder makes a unique addition to any place setting. The juice from the apple will help keep the evergreen pieces fresh for an extended period of time.

Cindy Derr, exhibits a shadowbox type ornament made with a curtain ring for a frame. Inside the frame are mice made from pussy willow buds with tiny pink sea shells for ears.



Here are just a few of the items presented at the workshop. To the left is an apple, evergreen and candle arrangement. Next is a six-gallon crock with checkered ribbon tied around it and filled with pinecones. To the right is a glass jar with sweet gum balls in it.

USDA schedules forum

WASHINGTON, D.C. — "Marketing Strategies for Increased Profits" will be the theme for the second annual U.S. Department of Agriculture's Farm Women's Forum, scheduled for February 7, 8 and 9, at USDA headquarters in Washington.

Secretary of Agriculture John R. Block said the purpose of the meeting is "to provide women with marketing strategies to aid in strengthening the producers' profit margin. With bountiful crops and low producer income, the challenge now for agricultural producers is how to market their harvest profitably. It is my intention that the U.S. Department of Agriculture direct its resources toward assisting producers in meeting this challenge."

The forum program will include top government and industry officials who will provide usable, practical information on such topics as market forecasting, use of home computers, cooperative marketing, electronic marketing, marketing orders, boards of trade and how they work, domestic and foreign market development.

The first such USDA-sponsored meeting for farm women was held in October 1980 and focused on legislative processes. Some 60 women attended, representing leading farm and farm women's organizations attended.

Application to attend the 1982 conference is open to all farm women. They need not be representatives of a farm organization to attend. However, because of space limitations, participation will be limited to 100 women on a first-come-first-served basis with consideration for geographical representation. Attendance at the Forum is free, but housing and transportation expenses must be paid by the participants.

Farm women interested in attending may obtain registration materials and information from: Farm Women's Forum, Office of the Secretary, Public Liaison, U.S. Department of Agriculture, Washington, D.C., 20250, Telephone: (202) 447-3622.

Registration by mail must be returned by January 5. The first 100 registrants will be notified by January 10.

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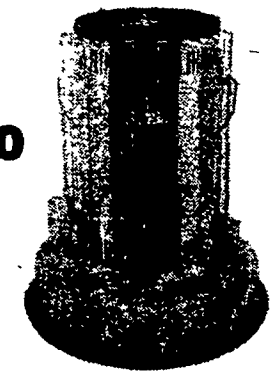
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...it's a dog's life

Man's best friend corrals other canines

BY DONNA TOMMELLEO

HARRISBURG — The big white pup sat amid a pen of Hampshire sheep, his sad eyes peering into those of prospective buyers at the Penn State Ag Arena Sale.

Almost invariably, the 7-month-old Great Pyrenees consigned by David and LuAnn Sverduk caused more than a few double takes.

He had no name at sale time but responded to anyone with a kind voice and a gentle touch.

The Hampshires moved easily around him as the pup's cold, wet nose gingerly nuzzled each ewe. He was no stranger to this pen of sheep, having lived with the ewes for almost six months.

David and LuAnn's 10-month-old daughter Ginger slept peacefully in a corner of the pen, nestled deep in straw. The tall, gangly pup moved about her with the utmost care, aware of his feet at all times. It was only when the pup lowered his shaggy head to give her a very wet, very sloppy good-night kiss, that the little girl stirred for a moment and dropped back off to sleep surrounded by the soft, warm breathing of the gentle creatures in the pen.

But the big pup with the sweet disposition still bore the scars from head wounds suffered in a battle with a German Shepard. The battle resulted six weeks ago when the Shepard entered the pup's 10-acre pen and threatened his sheep. The pup rose to the occasion and turned away one badly beaten Shepard before it could damage the sheep.

"The Great Pyrenees are just doing what they've been bred to do," noted David Sverduk.

Unfortunately, many sheep producers find out too late that such a watch dog may have saved them hundreds of dollars and valuable animals lost each year to dog kills.

The Lackawanna County couple explained their reason for consigning a dog to the Ag Arena Sheep sale was to expose other sheep breeders to the big white breed.

"I don t think that some people are aware of what they can do for dog kills," LuAnn commented.

In the past the Sverduks have tried everything from goats to guns in controlling dog damage on their 150-ewe operation.

Although they still have a pair of Border Collies for herding purposes, the Sverduks opted for the Great Pyrenees guard dogs about three years ago.

They started with an older female but quickly found out that younger dogs adjust better to training and began breeding the Great Pyrenees dogs on their Dalton, Pa. farm.

David and LuAnn Sverduk extend a friendly hand to their canine consignment. The Lackawanna couple are eager to spread the word about the Great Pyrenees effectiveness in guarding sheep.

"There isn't really too much training involved, " David explained.

The Sverduks generally introduce a guard dog to its pen of sheep at six weeks of age, or approximately after it's weaned where it will remain indefinitely. The Great Pyrenees usually stay within the confines of the pen because they show little tendency to crawl over fences, said David.

Eventually the Sverduks have built up their guard dog stock to enable them to keep a mature dog in each of the four ewe pens. Their puppies generally sell for $300.

"No one can afford not to have a guard dog," said LuAnn. "If you save one sheep, the dog's paid for itself."

The young couple may now have a dog in each pen, but before they could increase their numbers they ran only two guard dogs with their purebred stock. They recounted a painful incident when a Husky entered a pen of grade ewes, killed one and molested several others. David shot and killed the predator but the incident led to court case with the dog's owner. Today the Sverduks are still awaiting compensation for their loss.

"That's what convinced us to put a dog in every pen," LuAnn explained.

Believing in the future of the Great Pyrenees as guard dogs, David and LuAnn armed themselves with literature on the breed in hopes of educating those they encountered during the Ag Arena Sale and especially the lucky new owner of the no name pup.

When the gavel signaled the close of the sheep sale the Sverduks' pup sold for $170 to Gregory Strausbaugh, a purebred Dorsett breeder from York. The pup, recently christened "Max" had little trouble adjusting to his new home and new wooly buddies according to Strausbaugh.

And while many sheep producers throughout the state keep a watchful eye and a loaded gun in readiness for predators, the Sverduks and now Gregory Strausbaugh can sleep nights knowing dogs like Max feel at home in a pen of sheep.

This 7-month-old Great Pyrenees pup spends a last night with his wooly buddy before both of them were auctioned at the Penn State Ag Arena Sale. The pup has lived with the sheep since he was 6-weeks-old and has protected the sheep against attacks from other dogs.

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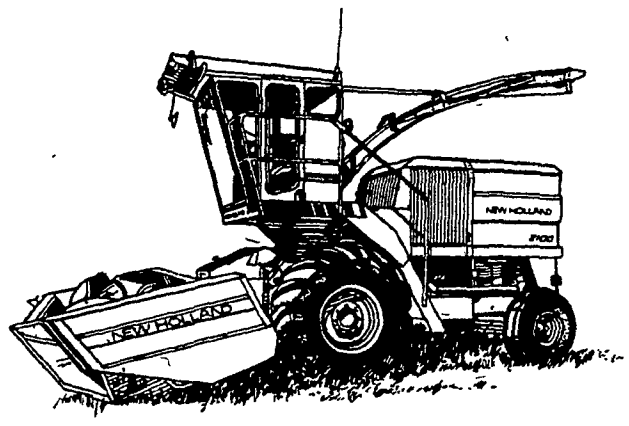

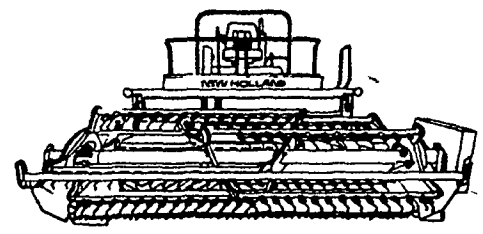

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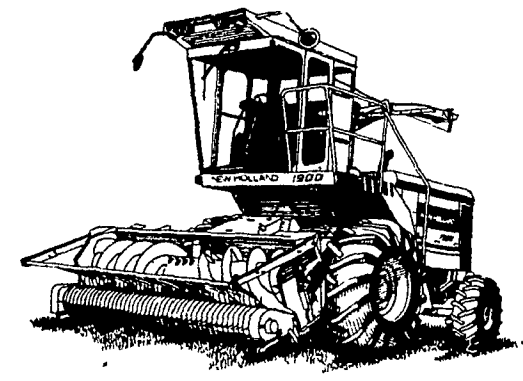

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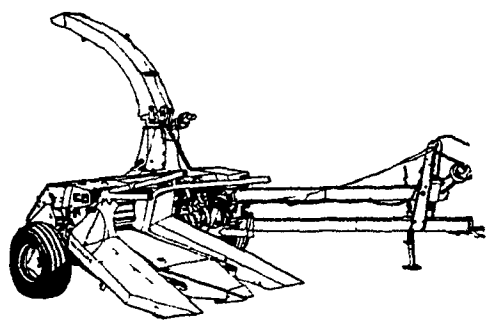

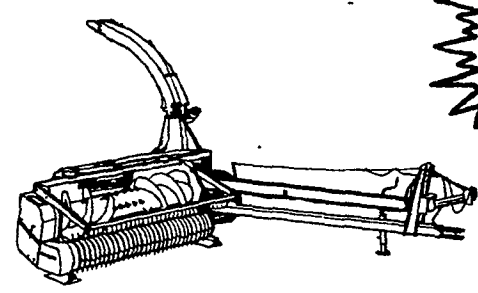

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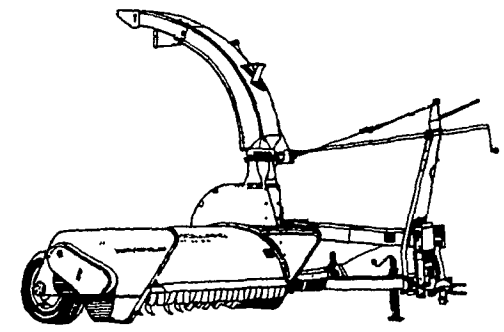

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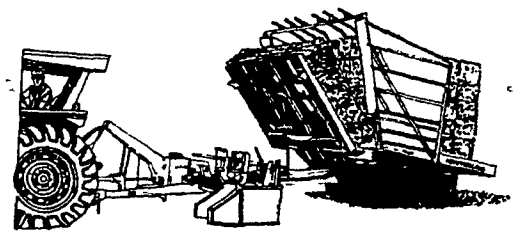

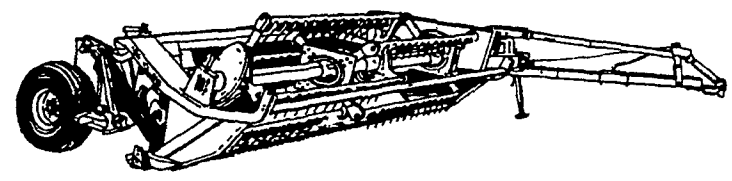

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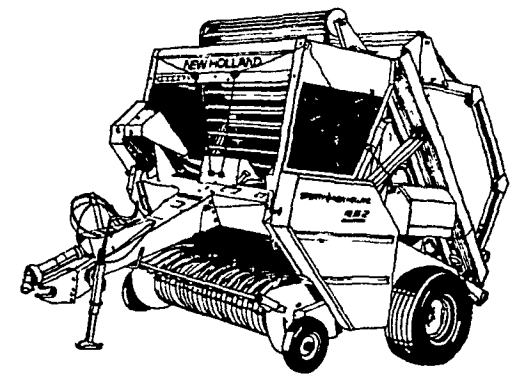

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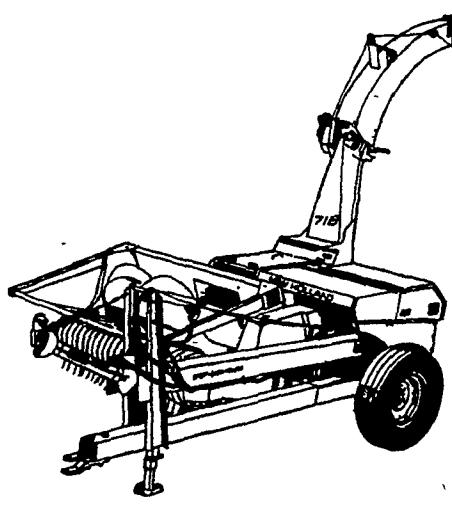

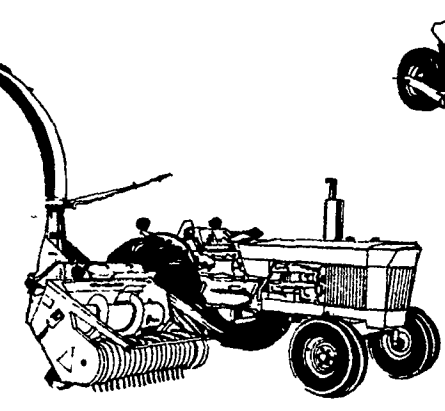

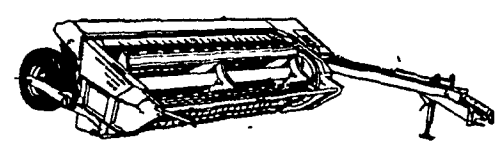

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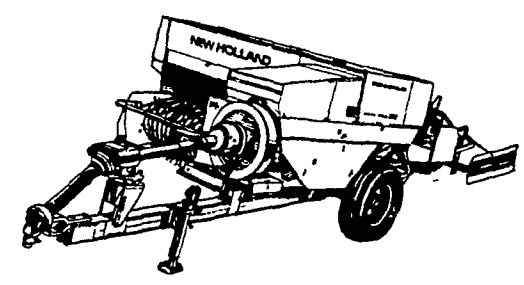
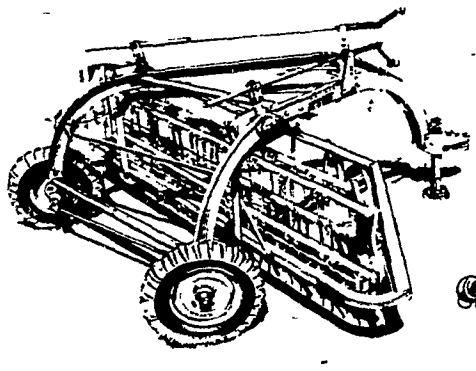
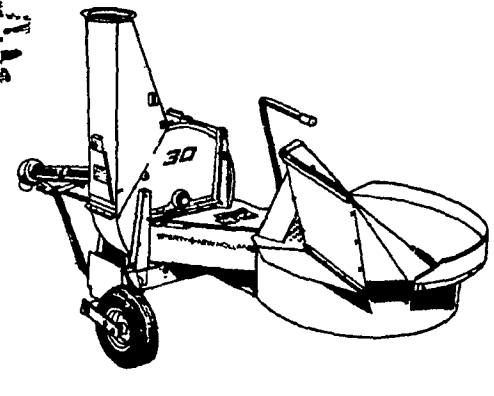
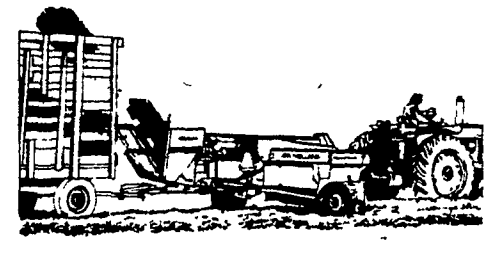


FORAGE MODELS 718, 707; MOWER CONDITIONERS MODELS 472, 474, 488, 489, AND BALERS MODELS 310, 311, 315, 320

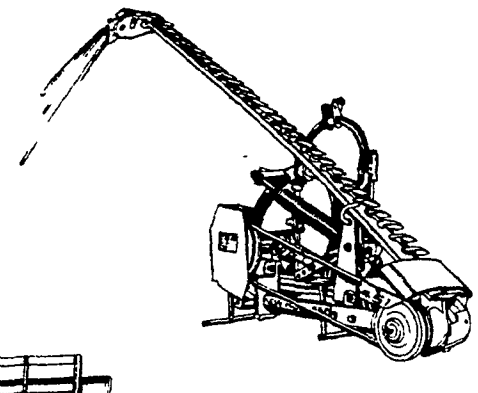


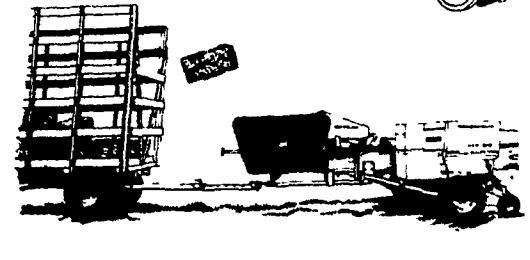
REBATES OF $125 ON RAKES AND BLOWERS





REBATES OF $100 ON SICKLE BAR MOWERS AND BALE MOWERS





USDA probes role of nutrition in aging

WASHINGTON, D.C. - In 1950, the average American could expect to live to the age of 68. Today we anticipate 73 years of life and by the year 2000 we can expect to live well into our 80s.

Research has shown that good nutrition is a major contributor to health and fitness," said Hamish Munro, director of the U.S. Department of Agriculture's Human Nutrition Center on Aging at Tufts University in Boston.

Scientists at the center are studying the relationship of nutrition to the aging process.

Munro said researchers are focusing on three primary questions: Does nutrition influence the rate of loss of various bodily functions as people grow older? Does nutrition influence the development of chronic disabilities associated with aging? And, what are the nutritional needs of older people?

Much of the nation's health care and social services are directed at diseases associated with aging.

"The elderly as a group use health resources to a greater extent than other adults. In 1977, their personal health care expenditures amounted to $41.3 billion, about 28 percent of the total for all Americans. Sixty-seven percent of the cost of health care for adults over 65 was financed by public funds," Munro said.

A $30 million nutrition research center where problems related to the aging process will be studied is under construction, with completion expected during 1982.

The building site is adjacent to Tufts University dental, medical and veterinary schools and the New England Medical Center. USDA's Agricultural Research Service, Tufts University, and the National Institute on Aging will cooperate in the research to be conducted there.

"Not only will nutrient requirements of the aging be investigated, but also the ways in which an optimal diet, in combination with other factors—genetic constitutional, psychological, sociological and environmental — may contribute to health and vigor over the lifespan," Munro said.

Housing for human subjects in the center will be fully equipped to study the nutrient needs of adults. There will be a laboratory for testing physiological functions as well as equipment for studying metabolism and body composition.

While the center is under construction, a limited research program is underway. A study is being made to determine the nutritional status of the elderly. About 400 human volunteers in the Boston area are being evaluated.

One area of research concerns osteoporosis, or loss of bone calcium, which occurs frequently in older adults, especially older women. Scientists at the center are studying the specific relationship of diet to the loss of calcium in the skeltons of menopausal women.

Other scientists are looking at protein and energy metabolism in aging humans to determine the significance of protein in maintaining tissue functions as aging progresses.

Studies have been made on the metabolism of albumin, a blood protein, in younger and older subjects receiving different levels of dietary protein. Other studies have looked at the role of muscle in protein metabolism to see what effects a change in diet or hormonal status has on the maintenance of muscle tissue.

"For the individual, the deterioration of health that often comes with advancing years greatly affects, if it does not dictate, the quality of life. I expect the prognosis to greatly improve over the coming years," Munro said.

Snowmobilers must register with the state

HARRISBURG — Rep. Noah W. Wenger today reminded Pennsylvania citizens of special rules and regulations on snowmobiles.

"In Pennsylvania you must register if you wish to operate your snowmobile on property other than your own," he said.

"If you ride on state-owned land or on local roadways you must register or face a possible fine."

Rep. Wenger said first-time snowmobilers can apply for registration by contacting the Snowmobile Unit, a part of the Department of Environmental Resources. Most snowmobile dealers and notaries also have the necessary forms.

Citizens with questions about various aspects of snowmobiling should dial these numbers: safety, training, trails and grooming, 717-787-2014; dealer orders, safety training supplies and film scheduling, 717-783-9226; general information, 717-783-1364.

Wenger urged snowmobile enthusiasts to use designated trails.

"According to DER statistics, over the last four snowmobile seasons only 10 percent of the snowmobile accidents have occurred on designated trails and roads," Wenger said.

Lettuce seeds can be stored

ATLANTA, Ga. — The best way to store lettuce seeds is to dry them to less than 7 percent moisture, seal them in moisture-proof containers that exclude oxygen, and then freeze them at 10 degrees Fahrenheit, said plant physiologist Louis N. Bass with U.S. Department of Agriculture's Agricultural Research Service, Fort Collins, Colo.

Bass, Director of the National Seed Storage Laboratory on the Colorado State University campus, recently addressed the 73rd annual meeting of the American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America.

Lettuce seeds are one of the most difficult of all U.S. agricultural crop seeds to store by using conventional techniques. Special care, more than mere storage in temperature- and humidity-controlled rooms, must be used to insure successful germination after storage.

"Just drying lettuce seeds to less than 7 percent moisture and sealing them in moisture-proof metal cans extends storage time up to 3 years compared to 2 years for seeds stored in paper bags at room temperature," said Bass.

By freezing at 30 degrees Fahrenheit, lettuce seeds in sealed cans still germinated after 8 years. Dropping the temperature to 10 degrees further extended storage to 20 years.

Bass cooperated with CSU graduate student Lindy Seip and ARS plant physiologist Eric R. Roos on the study.

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Education is key to successful land disposal of sewage sludge

WOOSTER, Ohio — One of the major environmental problems created by urbanization is what to do with tons of waste generated daily by cities and towns. It's estimated that more than 8 million tons of municipal sewage sludge will be produced in the nation in 1985!

The application of stabilized sludge to cropland offers an attractive and economical disposal alternative for many cities, and the key to acceptance of land application hinges on public education.

Robert H. Miller, professor of agronomy at Ohio State, said educational programs by a team of faculty from Ohio State and the Ohio Cooperative Extension Service have helped many cities in the Buckeye State establish successful land application systems. Currently, more than 80 cities generating 30 percent of the state's total municipal sewage sludge are applying the sludge to agricultural land.

Miller, speaking during the annual meeting of the American Society of Agronomy, said community acceptance of land application of municipal sewage sludge is dependent upon carefully planned educational programs before land application begins.

He said an interdisciplinary educational program was started in Ohio in 1974. It has paid big dividends and can serve as a model for other states considering land application of sewage sludge.

Educational program should be designed to reach every group and individual directly involved in land application. Programs should be tailored to the target audience—these include key members of the agricultural community, land owners, city officials, local health officials, community leaders, the press, and interested citizens concerned about the relationship of sludge disposal, and environmental quality.

Miller said the education programs must present a complete picture of any potential problems as well as the advantages of land disposal of sewage sludge. City officials must understand the management systems necessary to assure success of land application for their own municipality. It is essential that program participants be fully prepared to provide candid answers to any questions.

Ohio, the nation's sixth most populous state has a number of major metropolitan areas. Although it is a highly industrialized state, agriculture is still a very important industry and protection of agricultural lands is of major concern.

In addition to the team approach to public education, Ohio scientists and Extension specialists have developed and published a set of guidelines for the stabilization of sludge, cropland application rates, heavy metal limitations, and management considerations.

Now in its third revision, "The Ohio Guide for the Land Application of Sewage Sludge" (Cooperative Extension Service Bulletin 598), has proven a useful management manual for cities in Ohio and other states planning to change their sewage disposal system to one of land application of sludge.

"An open and honest approach is essential," Miller concluded, "to foster understanding, eliminate any distrust, and to minimize concerns, emotion, and controversy about land application of sewage sludge."

Dairies can harness wind for efficient energy

BELTSVILLE, MD — Windmills can provide an economical energy source for dairy farms, according to Dr. Herschel H. Klueter, agricultural engineer, with the U.S. Department of Agriculture, in a paper presented at the recent Small Wind Turbine Systems Symposium at Boulder, CO.

The best uses of wind energy for a dairy farm, according to Klueter of USDA's Agricultural Research Service, are to heat the water required for washing cows and milking equipment, and to cool the milk for storage. Since both cooling and heating capacity can be stockpiled in the form of ice and hot water, these are ideal uses for conversion of wind power.

Many dairy farms in the U.S. are found in areas with "good" wind—the Upper Mississippi and the Great Lakes. And the use of energy on a dairy farm is constant throughout the year, another reason these farms are a good choice for wind energy use.

This new application for wind power utilizes readily available technology. Old-fashioned ice banks and ice water plate coolers can be easily converted to harness wind energy. A compressor freezes water during windy periods to save for later use, said Klueter of the Agricultural Equipment Laboratory at Beltsville Agricultural Research Center.

Energy efficiency can be increased by pre-cooling the milk with the incoming tap water by using a simple heat-exchanger. Also, the water used to cool the compressor can be utilized since it is discharged at a temperature of about 37°C (100°F). This temperature is ideal for washing the cow's udders and milking equipment — the main uses of warm water in a dairy operation.

To test this new use of wind energy, Karman Science Corporation in cooperation with USDA installed a wind turbine at the Colorado State University dairy farm in 1977. A hoop-shaped, vertical-axis rotor was used to power the generator. It measured 30-feet high, 20-feet wide, and was mounted on an eight-foot-high tower. Since the experimental dairy farm in Colorado is not in a good wind area, the power supplied by the windmill was supplemented by power from the utility company. Nonetheless, the experimental equipment showed that the use of wind power for dairy farm heating and cooling is technically feasible.

Several features would improve the efficiency of the system, Klueter observed. If a variable speed windmill were attached to a variable speed compressor, the wind energy could be efficiently used to power the compressor directly. Also, to be effective, the size of the wind turbine would be correlated with the size of the dairy herd, he added.

Other uses of wind power that were studied by the U.S. Department of Agriculture included utilization of windmills for heating of buildings, for apple cooling and storage, for crop drying, for irrigation and for use in food processing. Of all the wind energy applications studied, use for dairy farms and for irrigation appear to be the most promising, said Klueter.

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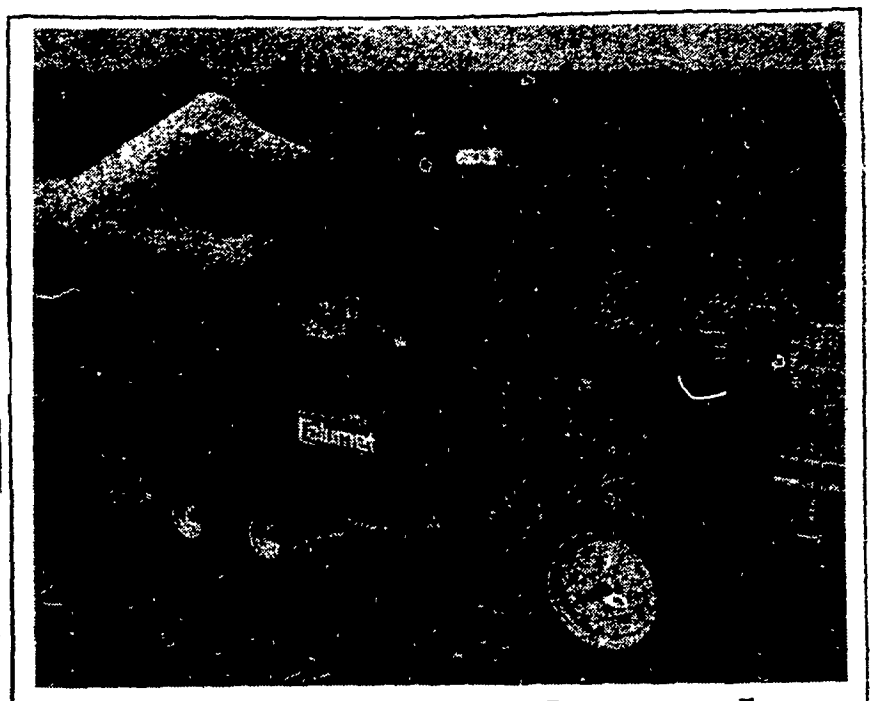

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Money woes hit agriculture; farmers told how to cope

COLUMBIA, Mo. — Farmers facing financial disaster were urged this week to "make a plan" that will either allow them to survive or to re-enter farming at a later date.

Above all, they were told, "don't take the business failure personally, avoid becoming emotional, and don't make threats" to the lender.

"We're seeing quite a few farmers in serious financial trouble for the first time in their lives. Many are just victims of the times," said Norlin Hein, University of Missouri-Columbia agricultural economist.

"These farmers need to diagnose the cause of their trouble, make a financial plan, and do their best to cope with extreme financial emergency."

Hein said farmers' financial plight has been caused by a combination of inflation, poor crop growing weather the last two years, low commodity prices, and high interest rates.

"But they (farmers) can't pass all the blame. It's time for some honest self-analysis about management ability," Hein said. "In some cases you may just decide to look at some other occupation or business.

"If you decide you're a good farmer and want to keep on going develop a plan for recovery. If that plan doesn't work, set yourself up — both personally and in terms of your remaining assets — so you can re-enter farming in the future."

Hein said the plan can be simple or sophisticated. It should include a list of assets and liabilities, some ways to raise cash and restructure debt, some cash flow projections, and so on. It might include selling some assets "or even finding a wealthy partner to bail you out of financial trouble."

Hein emphasized that it's important "for you to come up with your own plan" on how to solve your problem.

"If it's your plan, it's more likely that you'll stay with it. Also, even if the business doesn't survive, you at least made the effort to make a plan. This impresses lenders tremendously. Should you want to re-enter the business in the future, at least the lender will have a positive attitude toward you because you had a plan and tried."

Hein said some farmers in financial trouble are just giving up.

"Some have been so emotionally hurt they've even forgotten to feed their livestock or to do those other chores necessary for operation of the business," Hein said.

"Several of these farmers have taken the matter of financial failure as something personally imposed upon them by their lender. As hard as it may seem, you must remember that this is a matter of business as far as the lender is concerned and you must react to it that way," said Hein.

"Otherwise, the lender is not going to look upon you favorably if you want to re-enter farming at a later date. Nor is he likely to give you a favorable reference.

"I know it's not easy to keep doing a good job of managing and to act in a businesslike manner when you're under this kind of stress. But somehow you must remain calm and cool in order to survive."

Beaver Co. completes 35th year

BEAVER — The Beaver County DHIA finished its 35th year on September 30 with 31 whole-year herds and 2 Owner-Sampler herds.

The county's 1,426 cows on test averaged 13,967 pounds of milk and 494 pounds of fat.

McChesney Bros. Dairy of New Galilee led the county with 19,191 pounds of milk and 694 pounds of fat on 32.2 cows.

Floyd and R.M. Bonzo of Rochester were the second Beaver Co. dairy to average more than 600 pounds of fat. The Bonzos finished the year with averages of 16,711 pounds of milk and 694 pounds of fat on 16.5 cows.

Members of the Beaver Co. DHIA include: President-Raymond Searight; Vice President-Dan Brenner; Secretary-Treasurer-Keith Nye; Supervisors-Gregg Tallon and Jim Parks.

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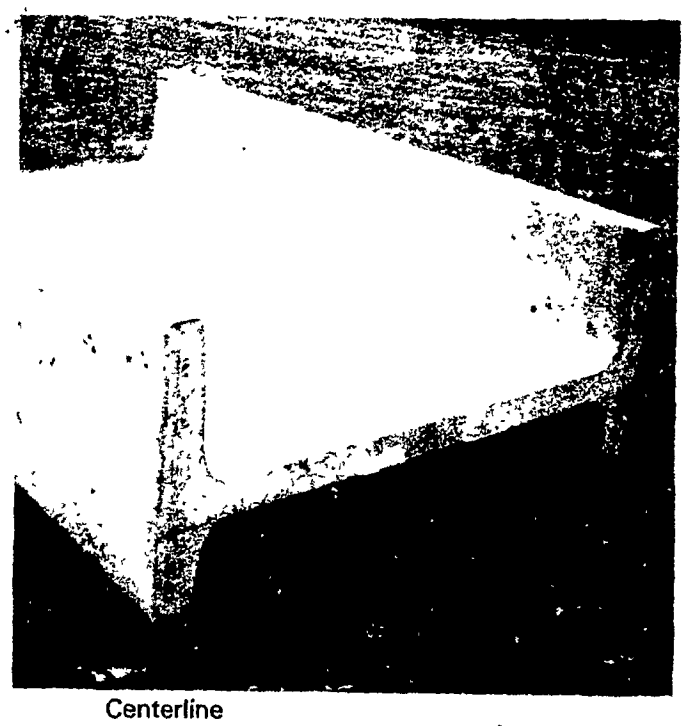

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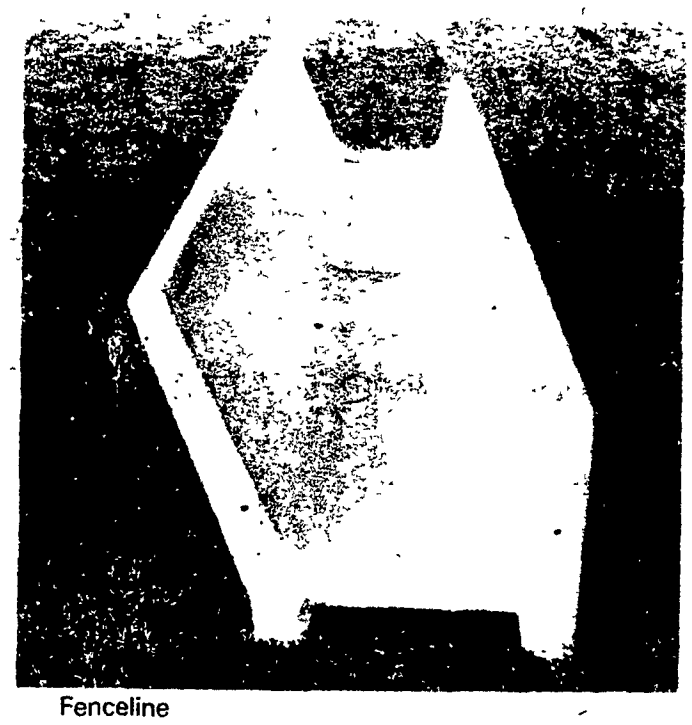

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Glenn Bowen tops Tioga Co. DHIA

WELLSBORO — Glenn Bowen led Tioga County with top records in milk and fat in the county's 57th DHIA testing year.

The Wellsboro dairyman completed the year with averages of 20,155 pounds of milk and 788 pounds of fat on 39.2 cows.

A registered Holstein owned by Gordon Wood of Mansfield led the county in top fat production. Wood's "Halo" completed the year with 1,404 pounds of fat and 29,016 pounds of milk with a 4.8 percent fat test.

Chenango Farm of Troupsburg, N.Y. had the top cow for milk production. Their registered Holstein, "Nancy" completed the year with 30,307 pounds of milk and 1,193 pounds of fat.

Members of the Tioga County DHIA include: President-Douglas Lawton, Vice President-Gordon Wilcox; Secretary-Treasurer-Suzanne Thomas, Directors-Earl Cass, Dennis Owlett, Sherman Warner, Fred Pazzaglia, James Hepp, Samie Wilcox, Winston Rumsey, Gordon Wilcox, Richard Groover, Gordon Schanbacher, Oliver P. Butler and Douglas Lawton; Testers-Thomas Doughty, Michael Stickler, Henry F. Doan, Kenneth Whitsell, Neil and Lona Shugart, Harvey Undercoffler, William and Diane McIlwain, Randy Luckenbill, Linda Sticklin and Joseph Hayden.

Those herds averaging more than 600 pounds of fat are included in the following list.

Glenn Bowen	RH	39.2	87.8	20,155	788
C. & D. Porter	R&GrH	44.4	88.8	19,742	749
Thomas Groover	R&GrH	38.6	90.7	19	
Verne W. Bowen	RH	40.3	86.2	19,240	730
L&J Holsteins	RH	37.8	87.4	18,397	729
Theodore Schmelzle	RH	47.1	88.8	19,007	700
Larry & Mary Herman	RH	46.1	87.6	19,320	699
Jay Foreman	RH	77.0	86.7	17,364	692
Richard Groover	RH	38.0	86.1	17,901	682
Willys Hamilton	RH	48.2	82.3	18,502	681
J. & D. Hepp	Mixed	23.9	88.5	17,736	677
W. & Rick Rumsey	RH	57.8	88.1	18,186	675
Keith Parthemer	R&GrH	84.4	89.1	18,651	672
Dale E. Allen	R&GrH	66.1	87.3	17,847	665
P. & E. Machmer	R&GrH	26.4	84.3	17,571	661
War-Bern Farm	RH	83.9	88.7	18,246	660
Charles D. Groover	RH	13.8	89.6	18,139	659
Gerald Parker	RH	73.6	89.8	17,432	659
Robert Shanley	R&GrH	57.8	86.1	17,017	654
Clark Bowen & Son	RH	48.2	84.2	17,019	653
G & R Schanbacher	RH	52.4	86.6	16,644	653
WK & DW Lawton	R&GrH	61.2	87.3	17,709	651
Bernard Courtney	R&GrH	107.2	87.5	17,922	651
N. & K. Fisher	R&GrH	61.7	84.5	17,786	651
Brenton Bailey	RH	29.2	89.8	16,924	650
Ralph B. Sampson	RH	45.0	88.6	16,179	650
Stephen F. Bolt	R&GrH	63.9	86.0	17,235	648
Ed & C Robbins	R&GrH	74.1	88.0	16,902	644
Leemon E. Gaugler	RH	33.8	87.6	17,243	643
Robert L. Miller	R&GrH	74.2	85.8	16,822	639
James Bradshaw	R&GrH	49.4	85.3	16,765	639
Jotowell Farm	RH	40.4	87.9	16,365	635
David Weaver	RH	58.1	87.5	16,080	632
Jack E. Randall	R&GrH	31.8	87.6	16,991	630
Middle Ridge Farm	GrH	81.1	89.4	16,423	629
Gordon M. Wood #1	RH	115.6	83.3	17,373	626
Simalot Holsteins	RH	74.7	85.0	17,193	626
Vernard Watkins	R&GrH	63.3	85.7	15,742	625
Alvin A. Forer	R&GrH	28.4	88.5	17,068	625
Charles Kent	R&GrH	33.7	80.1	17,725	624
Daniel Rieppel	R&GrH	36.4	83.9	17,447	623
John P. Busia	RH	39.2	91.7	16,609	623
Harold Robson, Jr	RH	35.1	86.8	17,808	620
Danny Stevenson	R&GrH	49.4	87.1	16,135	619
Richard Chamberlain	RH	42.0	85.5	16,235	617
William Chamberlain	RH	40.3	85.5	16,205	608
Tom Bower	R&GrH	124.5	85.9	15,372	608
Robbins Hill Farm	R&GrH	72.0	84.3	15,541	607
N & G Jackson	R&GrH	37.4	82.4	15,893	606
John Wheeler, Jr.	RH	41.8	91.5	16,864	605
Dean Baity	RH	52.7	87.8	15,714	603
Joseph R. Sherman	Mixed	67.6	85.0	15,931	602

Lycoming Local DHIA finishes 56th year

WILLIAMSPORT — The Pennsylvania DHIA-Lycoming Local finished its 56th year with 68 whole-year herds. In addition, nine Owner-Sampler herds completed the testing year.

The county's 3,532 cows on test finished with averages of 15,018 pounds of milk and 570 pounds of fat.

Eugene W. Hall of Muncy led the county with averages of 20,965 pounds of milk and 848 pounds of fat on 67.2 cows.

Lycoming County had three herds that produced more than 700 pounds of fat and twenty herds producing in the 600-699 bracket.

Members of the Lycoming Local DHIA include: President-Paul Ritter; Vice President-Donald Hepburn, Secretary-Treasurer-Nancy Jarrett; Directors-Burton Staman, Steve Marshall and Donna Hall; Supervisors-Larry Bower, Kay Showers, Robert McClintock and Jan Paulhamus.

Those Lycoming County herds averaging more than 600 pounds of fat are included in the following list.

Eugene W. Hall	R&GrH	67.2	92.9	20,965	848
John Snyder	RH	43.5	87.9	18,335	717
Richard Barto	R&GrH	47.7	86.2	18,659	714
Lester M. Poust	RH	60.7	91.1	17,397	709
Samuel & Larry Fry	RH	119.5	88.6	17,796	695
Mont-Will Farms	R&GrH	37.8	86.7	18,029	688
Franklin J. Finck	RH	75.5	92.1	17,955	687
Ritter-Ridge Farm	RH	101.4	84.6	18,113	680
Dennis W. Eckert	R&GrH	41.2	85.2	18,267	677
Marshall Bros. #1	RH	109.7	87.1	16,631	677
Schon-Crest Farms	R&GrH	39.6	91.7	17,229	672
Aaron Ritter	R&GrH	33.0	85.7	17,265	651
Willard Breisford	R&GrH	39.8	87.4	16,780	648
Steppe Bros.	RH	88.0	87.3	16,577	639
H. & A. Bower	R&GrH	21.2	85.5	17,368	638
Dale F. Cooley	R&GrH	30.3	84.0	16,806	636
Lost Brook Fram	R&GrH	64.2	86.5	16,559	635
Harold R. Drick	GrH	20.9	91.5	15,614	621
Jesse Snyder	RH	35.7	86.8	15,160	619
Marvin L. Waltz	R&GrH	70.7	88.0	16,747	608
Edward C. Ulrich	R&GrH	33.7	86.6	16,023	604
Miller & Rearick	R&GrH	69.5	86.4	15,670	603
Merrill Holden	GrH	82.5	85.2	15,745	603
J. David Jarrett	R&GrH	121.3	86.3	15,658	601

Courter Tops Clinton Co. DHIA

LOCK HAVEN — Clinton County DHIA recently celebrated its 42nd year of testing in the Central Pa. County. The county's 1,449 cows on test averaged 15,568 pounds of milk and 581 pounds of fat on 26 whole-year herds.

Mill Hall dairyman, Blair E. Courter topped the county with averages of 18,432 pounds of milk and 718 pounds of fat on 48.7 cows.

Members of the Clinton Co. DHIA include: Ronald Meyer, Larry Dotterer, Blair Courter, Leslie Irvin, and Paul Courter--Directors, Tom Fox, Ron Beck, Bonnie Beck, and Ron Rishel--Supervisors.

Those herds averaging more than 600 pounds of fat are included in the following list.

Blair E. Courter	3	48.7	86.5	18,432	718
Tom & Grace Nicholas	3	59.1	87.5	17,266	693
Paul L. Courter	B3	77.3	86.2	16,966	645
Anthony Graine	B3	30.7	86.3	17,549	634
J. Dale Peters	3	135.3	86.7	15,681	614
Robert Glen Dickey	B3	46.5	89.5	16,261	606
Robert Billman	B3	28.8	85.7	15,242	600

Gregory's Holstein tops Elk Co. DHIA

RIDGEWAY — The Potter-Elk Dairy Herd Improvement Association finished its 54th year in September. The DHIA Plan included 19 full-time members in Potter County (previously published), five members in Elk County and one in Cameron County.

In addition, there were two in Elk County on the Owner-Sampler plan that have not been listed in this report.

A 4-year-old registered Holstein owned by Fred W. Gregory of St. Marys, topped the county in milk and butterfat "Vida" finished with 23,636 pounds of milk and 818 pounds of fat.

Five Elk County herds on the DHIA plan completed the year A complete list of these herds follows:

Vincent J Wolfe, St. Marys	48.6	R&GH	15,429	609	84.4
Fred W. Gregory, St. Marys	40.3	RH	15,480	576	83.7
Ray-Lea Farm, Ridgway	38.6	R&GH	12,570	535	86.1
Toby Valley Farms, Kersey	35.8	R&GH	13,022	474	84.6
John Grotzinger, St. Marys	41.2	RH&J	10,644	462	89.0

Officers for the association include. Vice President-John Grotzinger, St. Marys, Secretary-Treasurer-Fred Gregory, Assistant Treasurer-Lewis Lent, Coudersport, Directors-Fred Knowlton, Roulette, Pete Cary, Harrison Valley, V J. Wolf, Supervisor-Lorene Dunn, Coudersport

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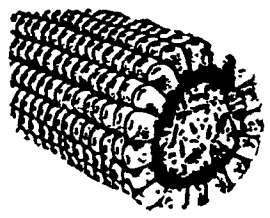

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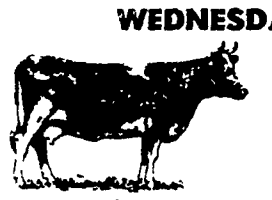

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WE'RE GROWING BETTER

Corn sweeteners add challenge to sugar markets

LANCASTER — America's "sweet tooth" has been more demanding than ever in recent years, but this news brings little cheer to beet and cane sugar producers. They're caught in a double-bind, with stiff foreign competition on one side and a home-grown corn product on the other, according to Farmline News Service of the USDA.

Of the two, the bigger challenge probably comes from the corn product, High Fructose Corn Syrup. HFCS has been a major success since it was commercially introduced in the U.S. in 1967.

In 1970, per capita consumption of HFCS was only seven-tenths of a pound per year. It rose steadily to 19.1 pounds in 1980 and an estimated 23 pounds in 1981. Meanwhile, consumption of refined sugar declined from 101.7 pounds per capita to less than 80 pounds today.

For sugar producers, these figures are cause for concern. Sugar wasn't able to hold its own even in a market expanding faster than the population, and that market may not be growing as rapidly in years ahead.

The average American now consumes almost 126 pounds of sugar and sweeteners a year. That's a staggering 35 teaspoons a day—most of it (75 percent) in baked goods, soft drinks, and other processed foods.

These numbers are among the highest in our history (the peak was in 1979 at 127.5 pounds).

Ten years ago, we averaged only about 124 pounds a year. But our use of sweeteners appears to have stabilized, and, by 1985, Americans will probably add only another half-pound of sugar and sweeteners to their diets, according to USDA economist Bob Barry.

"Greater health consciousness, attention to diet, and a small portion of the population in the sugar-craving ages of 10 to 25 years are the reasons," Barry says.

According to Barry, corn sweeteners (including glucose, corn syrup, dextrose, but mostly HFCS) now account for about one-third of total domestic sugar/sweetener use, up from 16.7 percent 10 years ago. And, largely because of the anticipated increase in HFCS use, forecasters say that this figure could rise to about 43 percent of the market by 1985.

This is bad news for sugar producers and processors. "The bottom line will be a reduction in the overall size of the sugar industry," Barry says.

On the other hand, present technology probably can't take corn sweeteners much further than a 50-percent share, leaving half the total market to traditional sugar.

Corn sweeteners have been steadily gaining on sugar's markets for one major reason: cost. It costs only half as much to make HFCS from corn as it takes to make sugar from cane or beets.

Plus, we grow all the corn we need right here in the U.S. Although energy costs in the corn wet-milling process are high, the corn itself is the single most expensive input, and corn prices (adjusted for inflation) have been reasonably stable over the last decade. For the sugar industry, it's another story. Only about half the cane and beets we process into sugar are grown domestically; beets mostly in Florida and cane in Hawaii and Louisiana. The rest are imported mostly from Latin America and the European Community.

Because the government of most exporting countries have lower environmental and safety standards, much lower or no minimum wage laws, and subsidies for their cane and beet growers, prices on the world market are sometimes substantially lower than domestic prices. This is especially true during periods of sugar gluts.

A prime example is the European Community—the most highly protected agriculture in the world—which is currently estimated to have an export surplus for 1981/82 of 4 to 5 million tons.

This creates a lot of instability in the American industry. While U.S. producers may want to sell as much sugar as possible and reduce imports, most refiners want to buy.

So, producers are looking to the government for protection. Specifically, the growers want a government-guaranteed program of loans with sugar as collateral, which, in effect, would provide a minimum domestic price level for sugar.

But many refiners see it differently. They say the major impact of government loans would be much higher domestic prices to consumers and much smaller domestic sugar consumption in the long run.

Higher world prices would be self-defeating according to refiners because sugar users might switch even more quickly to the alternative: corn sweeteners.

Some sugar refiners aren't taking any chances with the shaky sugar situation and have diversified into other businesses, including some processing of corn syrup.

For processors who are wet-milling corn, the time is right. Through 1980, the industry has expanded its production. But the development of the new HFCS 55-percent-fructose-content product, high sugar prices, and last year's decision by major soft drink companies to replace some of the sugar in their products with HFCS, has changed the industry's outlook. The word is expansion, and the industry can handle it.

There are currently 26 corn wet-milling plants operating, or soon to be operating, in the U.S. Seventeen have been built just since 1960. All of the plants are modern facilities, ready to process corn efficiently. And, according to Barry, HFCS capacity is expected to expand by 75 to 80 percent between 1980 and 1985.

"Wet-milling corn has many benefits," Barry says. "Diversity is the most obvious." Wet-milled corn can be used in five major categories: starches, corn syrups, dextrose, HFCS, and corn byproducts such as corn gluten feed, meal, and corn oil. Some processors are interested in adding a sixth-ethanol.

"It's a complex, multi-faceted industry, selling products to food, beverage, livestock feeding, and many other industries," says Barry. "Even corn byproducts account for about 20 percent of the value of one bushel of wet-milled corn."

Does the country produce enough corn to satisfy the sweetener industry's growing needs without cutting into livestock feed supplies?

"Yes. Right now, we expect the 1981 crop to be a record, and the sweetener market may take about 4 or 5 percent of it. By 1985, usage should be up to 6 percent. Supplies should not be a problem in the foreseeable future," Barry says.

But he adds that corn sweeteners can't do everything sugar can do. While HFCS is as sweet as sugar in many uses, some ice cream manufacturers will stick with sugar because it freezes at a slightly higher temperature than corn sweeteners. Bakers will probably use sugar in cakes and similar products because HFCS turns brown when baked.

Also, HFCS is just too sticky for most candy. "HFCS makes up only about 1 percent of the sweeteners used in the confectionary industry. With present technology, 1 to 5 percent is about as far as it can go," Barry says.

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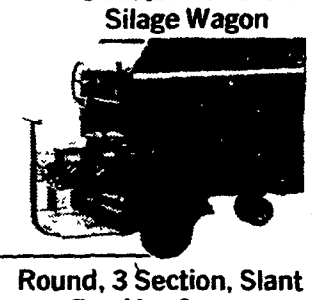

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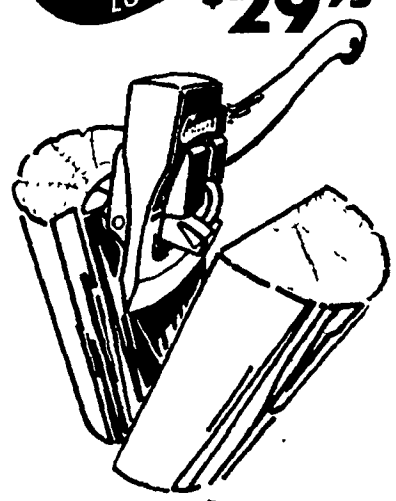

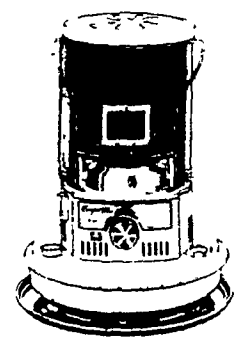

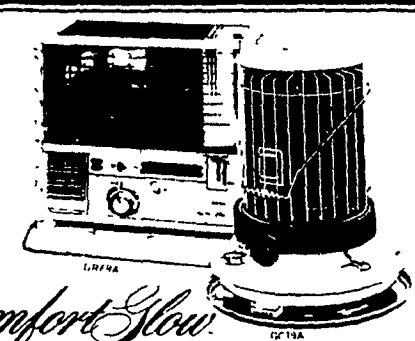

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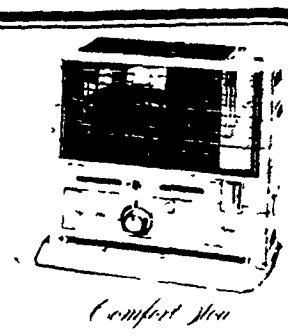

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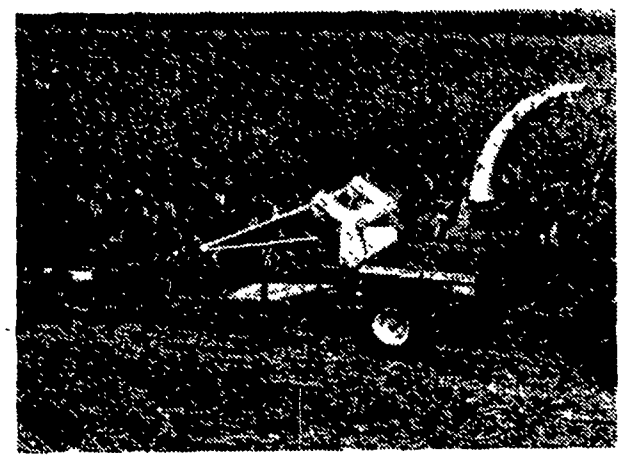

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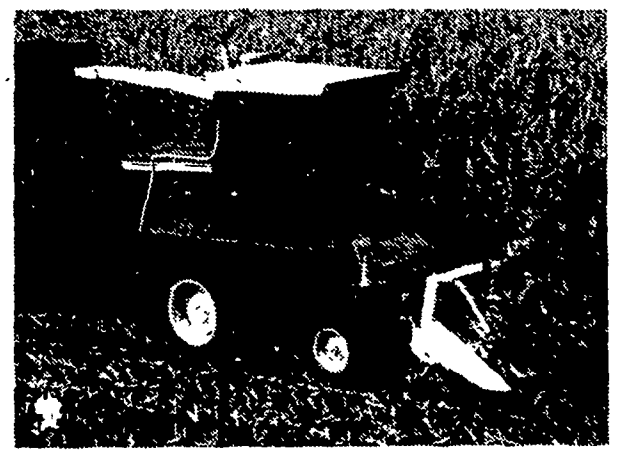

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Consumer prosperity affects farm income

LANCASTER — Two years of sluggish economic growth accompanied by disappointing farm incomes and prices have focused attentionon the interdependency between agriculture and the rest of the economy, particularly consumer demand for food. Consumer prosperity or adversity boosts or depresses farm income — a seemingly straightforward proposition, yet one that is difficult to measure.

Why should the effect of consumer incomes on farm prices and incomes be difficult to determine? After all, as their incomes rise or fall, consumers might be expected to make corresponding shifts in their purchases of high-cost foods, and these adjustments would change demand and prices for both livestock and crops.

Part of the answer is that there are so many forces simultaneously determining farm prices. The total impact of consumer demand on farm prices combines effects from changes in 1) consumer incomes, 2) consumer tastes, 3) prices of food products relative to one another, and 4) prices of food products relative to nonfood items. Each effect works through a series of markets — retail, wholesale, processor, and farm — before rising or lowering farm prices. In each market, other supply and demand forces — such as interest rates, labor costs, export demand, and crop sizes — help determine prices.

In one approach to cutting through the complexity, researchers have constructed economic models to measure the effects of changing incomes. These models estimate that farm income and prices climb significantly with gains in consumer incomes. Randy Zeitner finds, for example, that (all other things being equal) a 10-percent increase in disposable consumer income translates into a $6 billion change in farm income at 1981 levels. This is nine times more than the income boost resulting from a 100-million-bushel increase in corn or soybean exports, and it's five and a half times the boost from a 10-percent decline in corn yields.

Using a different approach, R. McFall Lamm estimates that, in general, a 1-percent increase in consumer income raises farm prices by 1.35 percent, with 80 percent of the gain coming in the first year. Thus, the effects of changes in consumer income on farm prices and income are significant; predicting and identifying these effects enhances the accuracy of price forecasts. Both Zeitner and Lamm are with the Economics and Statistics Service.

The connection between consumer demand and farm prices is obscured because farm products pass through a series of markets in which prices change at different speeds. Farm prices change first, and — along with marketing costs, which take the largest part of the food dollar — generally foreshadow changes in retail prices. This suggests that retail prices react passively to farm prices, ignoring consumer demand. Yet complete models of the economy yield strong effects of consumer income changes on farm income and prices. What explains this apparent contradiction?

First, commodity markets for livestock and crops are spot markets, meaning that prices are determined independently for each transaction. Prices change within a day, or even within an hour. Such volatility of prices decreases as the product moves through each successive market from the farm to retail outlets. At the end of the chain, grocery store prices change slowly. Prices move within a week, a month, or several months. How then can changes in consumer behavior in stores where prices move slowly be reflected in commodity markets in which prices may rise, fall, and rise again in the same day?

If consumers spend less during recessions, certain foods — particularly meat — move through stores more slowly. Replacement orders slow. The reduction in orders passes through the chain of markets to the commodity markets, depressing demand and reducing farm prices. If other forces are not offsetting, the decline in farm prices will then work its way back through the chain of markets. Supply and demand forces work on both the quantity and price of products; in the food markets, quantity can adjust before price. Consumer resistance can pressure commodity markets.

Prices in commodity markets will determine future supplies, as producers adjust production to profits and losses. If prices drop below costs, production will decline over time. If costs drop rapidly so that producers still profit at lower prices, output may expand — broilers over the past two decades being a good example.

In the last 20 years, Americans have altered their diets in response to income growth, changing production costs, and possibly changing tastes. The Nation has subtracted eggs and animal fats from its per capita diet, while adding vegetables, vegetable oil, and poultry. Per capita use of sugars and sweeteners, particularly in soft drinks, has increased substantially, while coffee, tea, and cocoa consumption dropped. Red meat consumption defies generalization because it fluctuates as hog and cattle producers build and liquidate herds in the well-known cycles of those industries.

Per capita consumption of all red meats rose 8 percent over the past two decades, a summary statistic that hides more than it reveals. Between 1960 and the two peaks in 1971 and 976, consumption rose 16 percent but then dropped back by the end of the decade. Considering beef alone (retail-cut basis), consumption rose a fifth overall; but at the peak in 1976 it had risen by nearly half.

The ups and downs in beef consumption reflect the cattle cycle. As producers liquidated herds in response to low cattle prices in the mid-1970's, consumers benefited from large supplies and low prices. Once the cattle herds were down and prices rose, consumers ate less beef. Although speculatively linked to changes in consumer tastes for beef, fluctuations in consumption are also consistent with the response to supply and consequent price changes.

Taste changes may be a euphemism for health-related food choices. A recent USDA food survey reported that two-thirds of households had adjusted diets in the past 3 years to improve health or nutrition, with the most frequent changes being to reduce calories and sugar intake. National averages, however, show that per capita consumption of calories and sugars are increasing.

In contrast, national averages are consistent with actions of the 28 percent of households who made dietary changes and were concerned about reducing fat intake and the 23 percent reducing cholesterol. Household consumption cutbacks for beef, eggs, pork, butter, and shellfish and increases for poultry, fish, and vegetable oil reflect these concerns.

Food expenditures increase with household income, but not proportionately. As incomes rise, the large food budget becomes a smaller proportion of the still bigger overall budget. Food marketers find it profitable to spend more to reach high-income families, but food expenditures in the overall economy rise most rapidly from income gains in the lower brackets, where a large share of each extra dollar goes to food.

As incomes rose during the last 20 years, food expenditures as a percent of disposable income (after taxes) dropped from 20 to 16 percent, while total expenditures rose. Expenditures for food at home dropped steadily from 16 to 12.2 percent of disposable income, while expenditures for food away from home fluctuated around 4 percent until the mid-1970's, when they began a steady rise — reaching 4.4 percent in 1980. Very likely, women's increased participation in the labor force contributed to this rise.

The percentage of income devoted to food varies significantly over the range of household incomes. During 1972-74, the period of the most recent Consumer Expenditure Survey of the Bureau of Labor Statistics, food as a percent of before-tax income varied from nearly 40 percent for households receiving $5,000 or less to 10 percent in households with $20,000 or more. The lowest income category contained 18 percent of the population; the highest, 16 percent. For the remaining two-thirds, food expenditures accounted for 14 to 23 percent of gross household income.

Households receiving under $8,000 and those with over $15,000 each made up a third of the population, with the affluent third spending 37 percent of all food dollars and the bottom third spending only 29 percent. The others spent proportionately with their incomes.

Md. tobacco auctions to open March 16

COLLEGE PARK — The 1981 Farm Bill (HR 3603) was amended on October 21 to prohibit the production of U.S. type 32 (Maryland) tobacco in quota states.

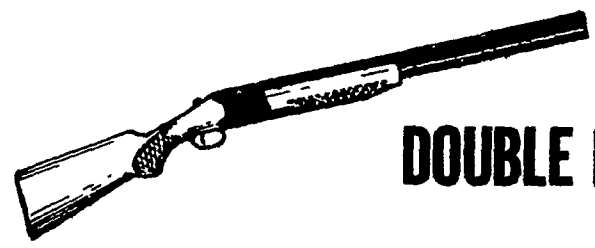
The amendment calls for Maryland tobacco grown in quota states to be applied against the quota beginning in 1982. The Conference Committee discussed this amendment on November 17 and is reported to have accepted it almost in its entirety. Formal announcement is not expected until December.

Although the legislation will not legally prohibit the growing of Maryland tobacco in other states, it will substantially reduce its production outside Maryland.

It was reported earlier that three quota states - North Carolina, South Carolina, and Virginia - had planted more than 11,000 acres of Maryland tobacco this year. Much of this tobacco has since been marketed.

Most auction sales were locally advertised and generally unorganized. Report from the Carolinas indicate a wide variation in quality as well as price. A few growers in quota states who followed Maryland production and curing practices obtained fairly good returns for quality and price. However, the experience of a large number of growers was dismal.

There were several 'no bids,' and 'trash' or poor quality, and prices were reportedly as low as 40 cents per pound. Prices ranged from 40 cents to $1.75 around Johnston County, N.C., and Lake City, S.C. The average price thru November 3 was reported to be $1.12 per lb. The low price reflects the generally poor quality of the crop in quota states.



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Penn State researcher explores solar energy and increased corn yields

UNIVERSITY PARK — Plant scientists at Penn State are working to build into corn plants the ability to convert maximum solar energy into expanded yields of grain or forage.

The complex process of converting solar energy into grain in corn plants is two-fold, stated Daniel P. Knievel of Penn State's College of Agriculture during national meetings of crop and soil scientists held recently in Atlanta, Ga.

Knievel and associates are seeking ways to enable corn plants to improve their efficiency in using the sun's energy, through the natural process of photosynthesis, to produce high levels of carbohydrates — the vital "building blocks" of plant growth.

The second factor, he said, is that plants must have the capacity to accumulate and store high levels of carbohydrates as grain.

Improved carbohydrate storage is essential, he pointed out, since high photosynthetic rates do not necessarily lead to high grain production. That's the crux of the problem, he affirmed.

"Our experiments with corn show that, after pollination, carbohydrates can accumulate in plants during periods of high photosynthesis without increasing the growth rate of the developing grain."

"To complicate the situation, we also found that corn plants accumulating high carbohydrate levels in their tissues during grain filling had lower than normal rates of photosynthesis," Knievel commented.

This means, he explained, that a scientific "breakthrough" to increase plant photosynthesis would not, by itself, improve crop yields. Corn plants would need the genetic ability to accept and convert additional carbohydrates into grain.

The Penn Staters grew corn in a way to simulate high photosynthesis capacity, as yet not developed in commercial hybrids. Plants were grown at high and low populations to vary the degree of shading between plants to control the level of photosynthetic energy per plant. Pollination was done by hand to control the number of grains per plant.

Rate of grain growth per kernel was the same for all treatments, regardless of the number of kernels per ear. Where kernel numbers were low, plants stored higher amounts of carbohydrates in stalk tissues than where kernel numbers were high.

"The high accumulation of carbohydrates occurred because the existing kernels were unable to accept all of the available energy from photosynthesis," Dr. Knievel said.

Reclaimed land produces good yields in good years

URBANA, Ill. — Federal law requires that the reclamation of prime farmland after surface mining construct soils that are at least as productive as the original soil.

University of Illinois agronomists are trying to make post-mine soils as productive as possible for corn and soybeans. The five-year-old study, which produced its first crop in 1978, is the largest reclamation project for row crops in the nation.

"Five years of reclamation research is like three months work in some other areas, because the effect of time on soil productivity is such a crucial factor," said University of Illinois Agronomist Ivan Jansen. The scientists will be able to further determine how newly reclaimed soils change over time under a new five-year research contract.

"Surface mining and reclamation are costly and consumers are paying most of those costs. It's important that we protect the productivity of the land that is to be surface mined. It is also important that only reclamation methods that are effective be used to give consumers their money's worth," Jansen said.

"It's costs more to reclaim surface-mined land than even the best agricultural land is worth. Yet we must protect our future capacity to produce food," he said.

Strip mining breaks down the natural structure of soil even if each layer of the soil is saved and replaced in its original position. One objective of the research is to find ways of creating an artificial soil structure that will provide a good plant root environment while the natural structure redevelops slowly over time.

Soils on surface-mined land improve over time with proper reclamation methods. The microbial population, which plays a role in the nutrient uptake and growth of plants, returns to a more favorable balance. Organic matter slowly accumulates and soil structure begins to develop with wetting and drying, freezing and thawing.

The researchers are growing corn and soybeans on five sites in southern and western Illinois on mined land that has been reclaimed in different ways to determine the effect on soil productivity.

Soybean yields have ranged from 0 to [illegible] per acre.

yields ranged from 0 to 155 bushels per acre without irrigation and from 142 to 191 bushels under irrigation. The Illinois five-year averages (1976-80) are 35.1 bushels an acre for soybeans and 109.8 bushels an acre for corn.

The lowest yields occurred in 1980 when severe drought and heat stress led to crop failure at some sites, Jansen said. Some of the yield variations also were due to reclamation methods.

Yields on newly reclaimed lands were equal in some instances to undisturbed land but generally they were lower. Jansen noted that in good years they have gotten good yields on reclaimed land but that these crops were more susceptible to weather stress because of the poor physical condition of the newly reclaimed soil, in particular its compaction.

In some cases low yields occurred because of a lack of desirable soil micro-organisms. This problem, which occurs only in the first one to three years, occurs in new soils constructed from a mix of materials that contain little or no material from the natural soil.

Susceptibility to heat and water stress persists longer but at this point researchers cannot say how much longer, he added.

World livestock auctioneer championship to be in Saskatchewan

KANSAS CITY, Mo. — The top livestock auctioneers from across North America will be battling for the title of 1982 World Livestock Auctioneer Champion June 18 in Regina, Sask.

The 19th Championship will be held at the Saskatchewan Wheat Pool's Regina stockyards, according to Livestock Marketing Association, which will sponsor and conduct the event.

The Wheat Pool is Canada's largest agricultural cooperative, and includes a livestock marketing division.

The day-long event will begin with preliminary rounds in the morning, followed by afternoon finals. Merchandise prizes and trophies will be presented at an awards ceremony that evening.

LMA sponsors the annual contest to focus on the important role of the auctioneer in livestock merchandising.

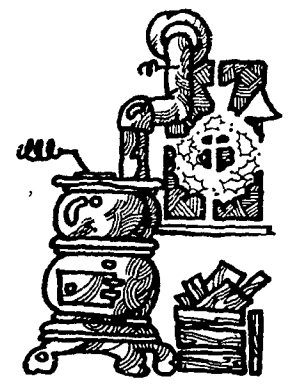
The 1982 Championship will be conducted in conjunction with Livestock Marketing Congress '82, to be held June 16-18 in Regina. The annual Congress, the industry's premier annual conference on livestock economics, is conducted by LMA's educational foundation, Livestock Merchandising Institute.

This will be the second time the Championship has been conducted in Canada. In 1977, Bobby Russel of Canton, Miss., won the world title in Calgary, Alberta.

Contestants are judged by a panel of market owners on the qualities the owners would look for when hiring an auctioneer for their businesses.

The 1981 World Champion is Doug Jaggers, Rushville, Neb. He won the title by besting a record-breaking 100 contestants last June in So. St. Paul, Minn.

Contestants must be professional livestock auctioneers and may be sponsored. Further information can be obtained by contacting LMA, 301 East Armour Boulevard, Kansas City, Mo., 64111.



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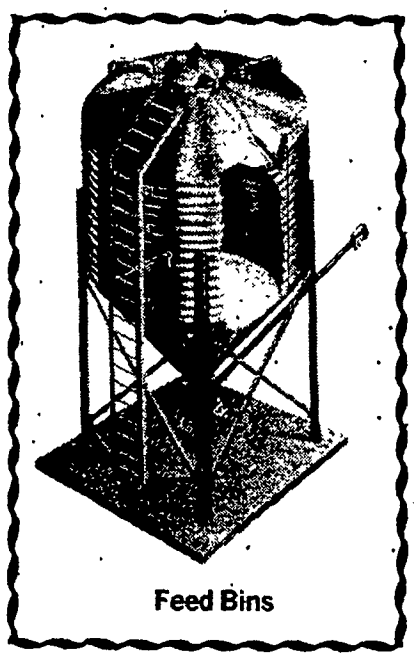

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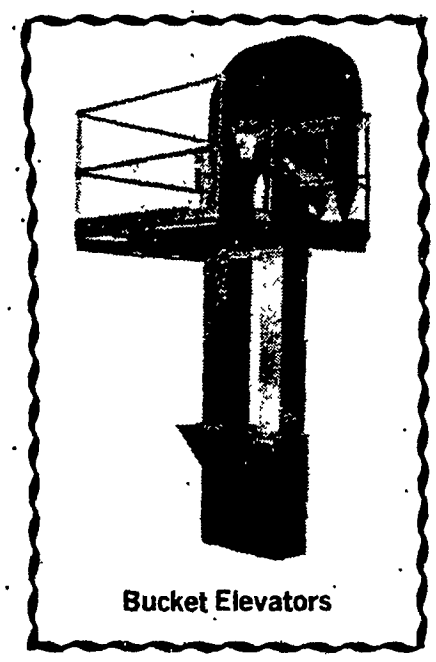

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Is acid rain harmful? 'Yes, but...'

By Boris Weintraub
National Geographic News Service

WASHINGTON, D.C. — The infuriating thing about acid rain is this:

Nobody is absolutely sure about its effects. There are lots of ideas, but few are guaranteed to hold up.

Does acid rain affect lakes and rivers? Certainly, the scientists answer, some of them. But not all.

Does it threaten forests and cropland? Probably, the scientists say, but they aren't sure.

How do the acidic substances get into the air? Most likely, from the burning of coal, oil, and natural gas, which releases sulfur dioxide and nitrogen oxides into the air. There they circulate with the great air masses that form our weather systems.

But scientists aren't sure what happens then to airborne acid, so it is impossible to "prove" that acid rain in New York was caused by smokestacks in Ohio.

Does it affect animals? Scientists are pretty sure it is harmful to fish and amphibians indigenous to acidified waters. But how about mammals? Maybe, some say; but they don't know, and haven't been able to prove it

And what about mankind? Are we in any danger from acid deposition. Again, some scientists think so, others say no, and nobody has proved anything conclusively.

There are some things that scientists do know about acid rain, Anne LaBastille reports in the November National Geographic, and few of them are reassuring.

Among the certainties is the fact that 6 percent of all the ponds and lakes in the Adirondack Mountains of New York have no fish because of the high acidic content of their waters. The acidity has increased substantially in the past few decades, as burning of fossil fuels has increased.

The problem is not unique to the eastern United States. According to one chemist in Sweden, an estimated 20,000 of the country's 100,000 lakes are either fishless or about to become so.

The problem is thought to be the discharge that drifts northward from Europe's industrial belt.

Scientists have been working hard to find out more about acid rain, its causes and its effects. In the late 1970s, a nationwide network of 84 monitoring stations was set up to analyze samples of rain, snow, and dry fallout from 32 states. A similar group is monitoring samples from 55 sites in Canada.

Some areas of the eastern U.S. and southeastern Canada are receiving rainfall as acidic as vinegar, the studies show.

But what this means, what its consequences are, and what should be done about it — these are questions that have not yet been definitively answered.

While some scientists blame loose standards in some Midwestern states for permitting more than 10 times as much sulfur dioxide per ton of coal into the air as Eastern states allow, coal company scientists say there is no substantive proof that their smokestacks are responsible.

The Clean Air Act, which is up for reauthorization by Congress this year, requires that emissions from fossil fuel-burning facilities meet certain standards.

But each state is permitted to set its own standards, which leads some officials to blame the act for the increase in acid rain. Meanwhile, industry is reluctant to spend billions of dollars to modify existing plants unless it is proved they are responsible.

Such equipment, and others to control sulfur dioxide emissions, can make a difference, LaBastille writes. She cites the case of Japan.

Japanese officials issued stringent sulfur oxide controls in 1968 and encouraged the use of low-sulfur fuels and desulfurization. By 1975, emissions had dropped by 50 percent, even though energy consumption had doubled.

Even stricter limits have been set since then, and 1,200 scrubbers to reduce emissions from smokestacks have been installed, compared to about 200 in the United States so far.

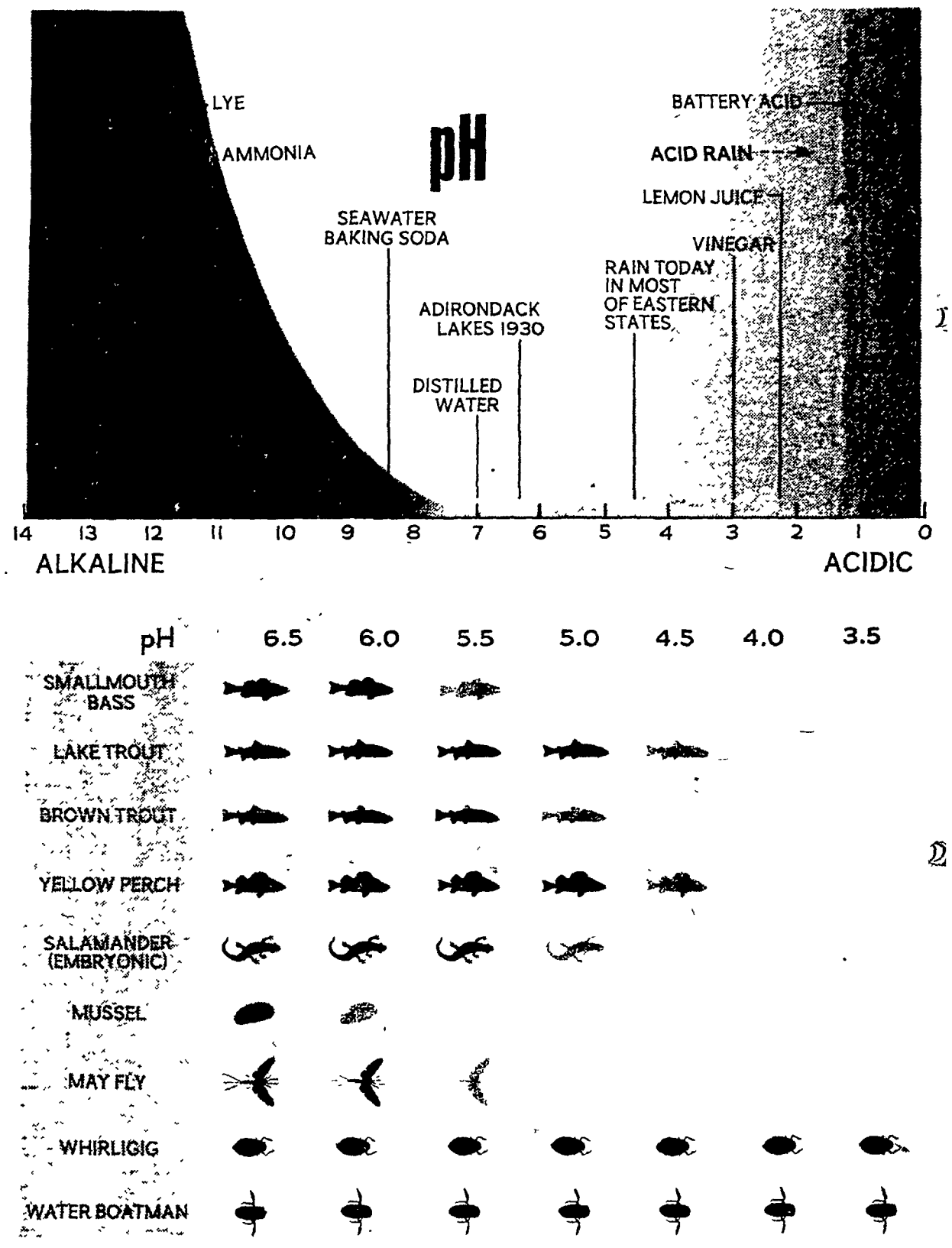

Diagram by William H. Bond, © 1981 National Geographic Society

Acid rain falls somewhere between lemon juice and battery acid on this pH scale, above, which measures the level of acidity. Scale ranges from highly alkaline, such as lye at left, to highly acidic, such as battery acid at right. Graph, below, shows mussels dying at a pH of 6.0, mayflies and smallmouth bass at pH 5.5. Acid-tolerant insects such as water boatmen and whirligig beetles survive and multiply even at pH 3.5.

Scientists test tomato response to potassium on sandy soils

NEWARK, Del. — Crops like corn and soybeans don't always respond to potassium fertilizer when grown on sandy coastal plain soils. This is true even when such soils test low to medium in potassium (K).

In an effort to understand better the behavior of K on these soils, scientists at the University of Delaware Agricultural Experiment Station decided to see how tomatoes—a crop which needs a lot of potassium—would respond to K fertilizer and lime on a Coastal Plain soil near Georgetown.

Soil scientist William C. Liebhardt, one of three investigators on the project, reported their findings during recent meetings of the American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America in Atlanta, Georgia. Working with him were graduate student Harris W. Martin and technician Jackie L. King.

The piece of land involved in the study has received various rates of potash and lime over the past 10 years. Corn and soybeans have not responded significantly to additional applications of K on this ground.

Tomatoes were grown on the same soil under irrigation at different levels of potash fertilizer and lime. The variety Redpac was used. This is a machine harvestable, 80-day fresh-market variety.

The topsoil was tested for acidity and important nutrients. Tomato leaves were analyzed for major and micro nutrient content. Since the soil is acidic, liming increased yield. But only moderate amounts of lime were needed—one ton per acre every four years, or a soil pH of 5.5 to 6.0.

Because soil and leaf potassium levels were adequate on unfertilized plots, potash did not increase total tomato yields in this trial, Liebhardt reported. However, added K did increase the marketable yield—all ripe fruits harvested in a once-over picking of the unstaked plants.

The work on tomatoes also confirmed previous research with corn and soybeans regarding various cation ratios (calcium, magnesium and potassium) and crop yield. The research shows that use of BCSR soil testing approach is in general not a valid approach under Delaware conditions.

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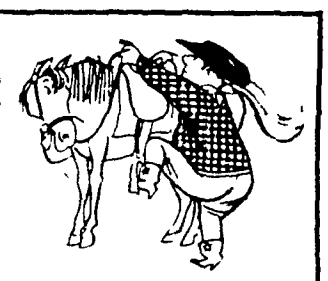

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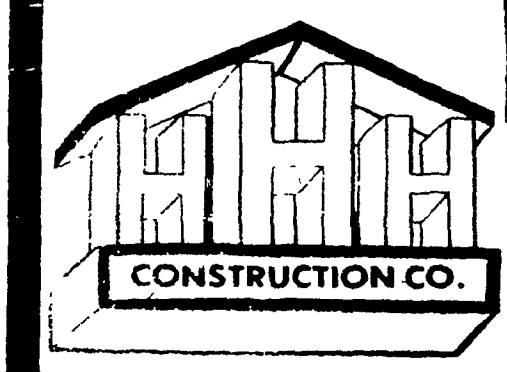

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Recession hurts livestock industry

SCHUYLKILL HAVEN — The U.S. economy has slipped into another recession. Unemployment is at about 8 percent and consumer incomes in deflated dollars have remained flat or even declined slightly. The slowdown has left consumers uncertain about the future and more cautious about current expenditures.

J. Allan Shoener, Schuylkill County Extension director says beef and hog producers have seen the market price of their animals fall in recent weeks as a result of slow retail movement. Finished cattle are selling at about $3 per hundredweight below the depressed levels of a year ago. Cattle feeding has been profitable in only two of the last 26 months.

"Hog producers have not fared much better," according to Shoener. Market hog prices are currently about $4 per hundredweight below last year's price. Hog prices have been at profitable levels in only four of the last 26 months. It is unusual for both cattle and hog prices to be so depressed at the same time over such a long period of time. The deflated price of hogs is lower than the average price during the 1972-80 period.

Livestock producers have unintentionally contributed much in the last two years to holding down food prices and help lower the rate of inflation. Substantial improvements in livestock prices are not expected during the next two to three months as large supplies of meat continue to come to market. In the first quarter of 1982, total red meat and poultry production should drop about 2 percent below a year earlier.

Under normal conditions, production would be expected to drop even more considering the long period of producer losses. The record 1981 corn crop, with production up 22 percent from 1980s drought reduced crop, has forced grain prices sharply lower, too. Many livestock producers will continue to feed livestock despite losses, rather than sell cash corn at current prices. These producers believe that there will be a chance that livestock prices will improve by the time the livestock is ready for market.

Consumers have been the big gainers over the last two years, puchasing newer record supplies of meat at reasonable prices.

Beware of misleading energy saving claims

LANCASTER — As the weather grows colder and fuel bills soar, people become easy targets for advertised gadgets and devices that promise big energy savings. Many of these claims are exaggerated.

If you went out and bought four or five of these products—each promising anywhere from 25 to 40 percent savings—you might expect to save over 100 percent. But that's not the way it works out.

"Talking in percentages means different things in different houses," says University of Delaware extension agricultural engineer Ernest Walpole. If your fuel consumption is 1000 gallons a year, a 10-percent saving is 100 gallons. But if you've insulated and weather stuffed and cut your fuel use to 500 gallons a year, a 10 percent saving will amount to only 50 gallons.

"Generally," says Walpole, "the more energy efficient your house is now, the less you'll benefit from further improvements."

Here are some examples of the more obvious claims you're likely to run into:

Example—A manufacturer claims you can realize a 15 to 40 percent energy savings if you install his insulated siding.

If you have an old house with no insulation in the walls, the heat loss through them could account for over 40 percent of your fuel consumption. But insulating won't eliminate all that heat loss. If you add insulating siding to a house like that you can cut the heat loss through the walls in half for a fuel savings of 20 percent.

If, on the other hand, your walls are already fully insulated, they account for only 17 percent of your fuel consumption. In this case, adding insulating siding will reduce your fuel bill only three percent.

In other words, the same improvement—in this case, siding—will effect a different level of efficiency, depending on the condition of your house before the improvement was added.

Example—An advertisement states, "Our storm windows will cut your heat loss 50 percent. Triple pane windows will save you 40 percent."

These claims aren't to far from the truth, if they told the whole truth, Walpole says. Storm windows will cut heat loss through the windows by 50 percent, but that's not the only place heat is lost through the structure. The reduction in total fuel consumption will be in the range of 14 to 28 percent, depending on the amount of window area.

Triple glazing will save about 35 percent—not 40 percent—compared to a double pane. Adding the third pane reduces total fuel consumption an additional six to nine percent, assuming you have a well-insulated, weather-stripped house. If your place isn't energy efficient to start with, though, these savings could be cut in half.

Example—"Flue dampers will save up to 24 percent on fuel consumption."

Tests by the National Bureau of Standards show possible savings from five to 16 percent, depending on the furnace. Flue dampers on furnaces in unheated areas and in most unheated basements are of little benefit, says the engineer. Flue dampers are not useful with most of the new high-efficiency furnaces.

Example—"Ceiling fans will save up to 35 percent on your annual energy bill."

With the average house there would be little, if any, energy savings in winter from one of these fans, unless you have cathedral or other extra high ceilings. The greatest benefit would be in summer when the fan provides comfort on warm days without turning on the air conditioner.

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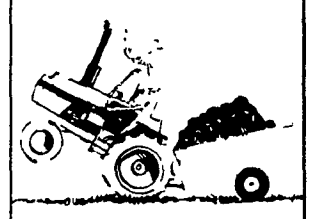

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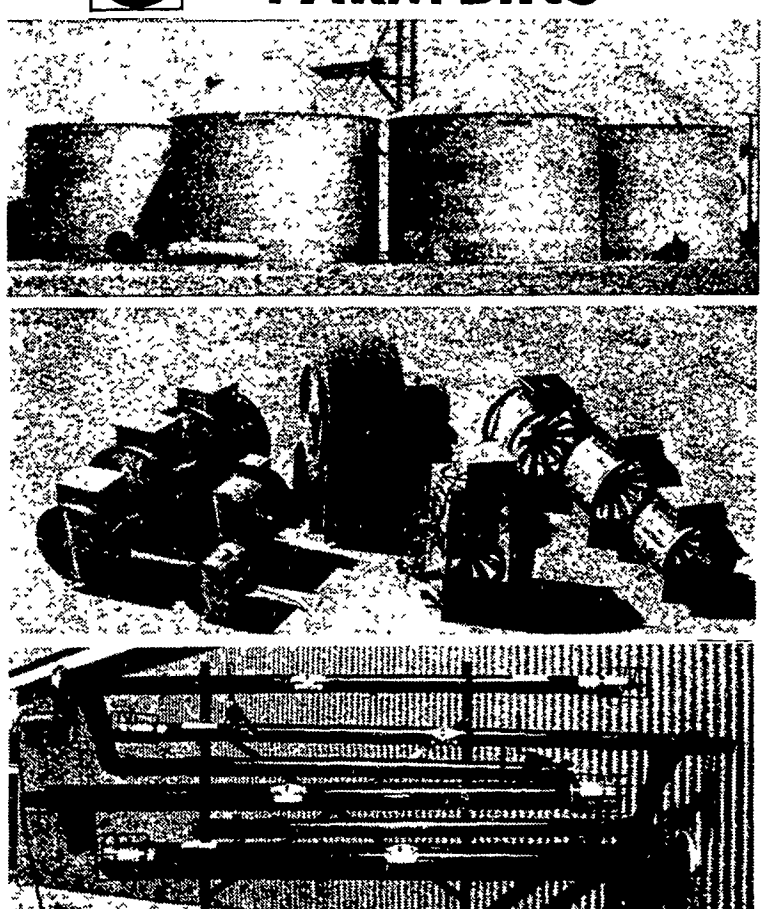

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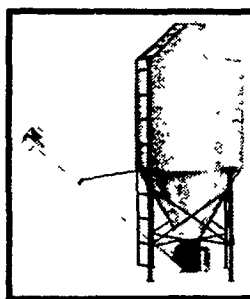

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AGWAY answers your needs

Turn waste into efficiency, says PSU agronomist

UNIVERSITY PARK — Under today's economic conditions, it is no longer profitable for farmers to substitute extra fertilizer for poor management, points out Douglas Beegle, Extension agronomist at Penn State.

Beegle, explains there are many opportunities for improved efficiency in fertility management for corn production in Pennsylvania.

"Manure can no longer be looked on as a waste to be disposed of but must be regarded as a valuable soil fertility resource that should be properly managed," he points out.

"At today's prices, a typical 12-ton per acre application of dairy manure can contain about $40 worth of available plant nutrients."

To help farmers with manure management programs, an Extension service manure analysis pilot program has recently been started in the state. This could play a major role in improving soil fertility management, the agronomist emphasizes.

"An old practice that is getting new attention is starter fertilizer in corn. Placing a large proportion of the crop phosphate requirement in a band near to the seed at planting can greatly increase phosphate fertilizer efficiency," he adds.

The amount of response depends on the general fertility level of the soil, the pH, and yearly growing condition. But, he says, a 10-bushel per acre or more response is a reasonable expectation.

Beware claims of growth substances, soil conditioners

UNIVERSITY PARK — The Pennsylvania Department of Agriculture, in one of its capacities acts as a consumer protection agency. However, its approval of plant growth substances and soil conditioners does not mean that these products will necessarily increase yields.

John Longnecker, Chief of the Division of Feeds, Fertilizer and Lime, wants the public to know that approval by his office means only that products will not be harmful to plants, animals, fish or humans; and that advertised claims are true. It does not assure the farmer of beneficial results.

Legislation passed in 1977 mandates the PDA to regulate products classified as "plant growth substances" and "soil conditioners". "Plant growth substances" are any materials other than traditional N, P, and K type fertilizers which claim to stimulate plant growth by increasing nutrient availability of providing other growth enhancers. Examples are seaweed extracts, nitrogen fixing organisms, or chemical plant growth regulators.

"Soil conditioners' are products which claim to improve physical or chemical conditions in the soil, such as crusting or poor drainage. These include liquid wetting agents similar to detergents, organisms advertised to break down herbicide residues, and plant materials such as peat moss.

Purchase of these products, which claim to be cheap in relation to the benefits they offer, is an added burden to the expense of raising crops. Therefore, farmers should understand the limitations of PDA approval, or registration, of plant growth substances and soil conditioners.

The PDA's Division of Feed, Fertilizer and Lime screens all such products marketed for sale in Pennsylvania. Any claims for performance must be documented with valid research data, and listing of ingredients must be accurate. But, even if all claims are found to be perfectly valid, the product may still have no benefit for the farmer.

Proof that yields were increased in a part of the country where growing conditions are very different from Pennsylvania — in the arid West, for example — may have no implications for crops grown in the wet, acid conditions found in this region. Proof of performance elsewhere is no guarantee of performance here.

Claims about contents, such as "adds nitrogen to your soil" may be accurate — the product may contain nitrogen — but the amount of nitrogen added may be negligible in terms of crop response.

Similarly, statements about effects of products, such as "makes water wetter", may be true, as in the case of wetting agents, but the magnitude of the change may be so small that no effect will be felt by plants under field conditions. Proof of claim, which the legislation requires, is unfortunately, not proof of value.

Farmers may find it easier to determine which products may be useful in solving their particular problems if they: read produce labels very carefully to identify specific claims and contents as distinguished from other imaginative text on the label; test a small amount of a product on a strip of land adjacent to an untreated strip and note any difference in crop growth, and ask county Extension agents if they have any information on the product and can advise as to whether the product is appropriate to the problem.

Registered products do not bear a seal of approval by the PDA, but lists of the products registered and those rejected are available from the Department. PDA agents continually checking stores throughout the Commonwealth to make sure that only approved products are being sold. If consumers have any doubt about whether a product is registered. Longnecker urges them to call the Department in Harrisburg. An alert retailer can save himself the money lost when a stop sale is issued if he checks with the Department before stocking up on an unfamiliar item.

"I think we evaluate these products pretty thoroughly," says John Longnecker. Nonetheless, he feels that his agency cannot relieve consumers of their own responsibility to choose products which will be of real value to them.

Chicken Coop News

Update on the poultry industry

By Herb Jordan

Penn State Extension Poultry Specialist

Bioeconomics and animal welfare

Density of population per unit of square or cubic area has long been examined by scientists. What is the optimum, best or most nearly perfect equation to evaluate density with which animals are housed in captivity?

Bioeconomics can relate biological performance, such as egg production of layers, to annual net income per bird in cents. Both of these can be expressed as overlapping curves on the same chart relating positive or negative performance with density in square inches of floor space per pound of bird in a cage. This assumes birds are not obese. (This also assumes birds are normal.)

As density moves from a high number of square inches of floor space per pound of layer to a low number (meaning as birds are more densely housed), we find egg productioon initially increases, peaks then decreases at a significant rate, while net income per bird per year increases more sharply, peaks later than biological performance (egg production) then falls off rapidly.

The controversy between animal welfare people and production people may be "where do you select a population density to house birds between these two peaks?" This question appears simple; however, it is quite complex with many factors to consider.

The enclosed chart is composed of estimates from observed performance in the field — it is not the result in research. Some day research may show a more definitive chart with more precise values.

Egg price, precise environmental control of houses, costs of imputs, genetic potential of layers, quality of nutrition and health of birds all relate to this equation.

No one has a precise answer to this question at this time; however, we must be keenly aware that every question we write and every conclusion we draw will need modified for conditions which are prevalent at the time.

Using the figure of square inches of floor space per pound of normal bird is only a beginning. Time will tell if it will last or give way to other physical, chemical, biological or aesthetic values. We may eventually use cubic measurement to establish requirements of physical space or conditions.

Time the animal is exposed to stress is also important.

Energy or nutrients expended to deal with a situation may someday relate to space per animal.

Behavior of the animal still remains as a primary way to evaluate its normal or abnormal state or condition.

Performance can help too — egg number is only one factor. Egg size, fertility, shell strength, interior quality and defects in the egg may be used along with feed conversion and normal performance.

How the birds looks is a measure of health, happiness, normal physicological function of all organs and systems.

Health may be one of the better measures of normality.

Absolute or definite answers are not evident so we must struggle to ask the right question.

Ultimately the bird's performance has been asked to pay the bills and earn a net income. Supply, demand, price and net income can be beyond the control of the farmer is most or all cases.

Density with which birds are housed is only one factors of egg production, market, bird health and performance. Our goal can be to ask the question properly or use the most complete and accurate equation.

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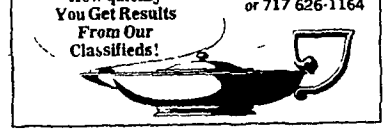

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For Sale 66 Oliver $700 Sauder loader with ground scoop $50 Sears table model cream separator $50 Leb Co 717-866-5396

For Sale- 1966 Int. cattle truck, 11,000 GVW good tires, needs inspected, $800 or make offer, Dauphin Co. 717 469 0449

For Sale Reg. Polled Hereford bulls, top bloodlines, 8 to 10 months old Columbia Co 717-925-6827.

Wanted- 8 or more window (wooden) sash, 32 to 48 inches wide, 57 inches high, appr to close porch 215-469-6695

For Sale- 7 ft. round locust posts, standard bred horse. Abner S Glick, RD1, Box 270, New Providence, PA 17560

For Sale- Grade Holstein dry cows due Feb Elam Stoltzfus, R1, Conestoga, Pa 17516, Fanyard Road, Lanc Co

Wanted Dairy record system for 40 cows, feed cart or wheelbarrow in good cond., Leb Co 717 865 5340.

For Sale- 6006 Deutz tractor, good cond., $4500 or best offer Ammon M Nolt, East Earl, RD2, Pa 17519.

For Sale 3 polled hereford heifers, 1 fresh, 2 springing, reasonable price, call evenings after 6 717 776 3294 Cumb Co

For Sale 1939 Oliver Cletrac Crawler, 4 cyl Buda DSL narrow track wide gauge, excellent cond., $1200 717-927 6564 York Co

For Sale Cookstove, wood/coal, 6 plate, Wincroft, w/water heater & warming over, white, $400 York Co 717 266 5138.

For Sale- 1974 Bay Mare, rom race, deck and leo breeding, excellent barrel prospect, proven broodmare, 717 687 6232 Lanc Co

For Sale Corn silage, 717 733-2646

For Sale Used John Deere 1020 gas tractor with power steering and Souders loader attached. 717 374 9996 Snyder Co

For Sale- Columbia Kitchen Range, Caterpiller 15, D2 Caterpiller angle blade, P10. 1D9 w/angle blade 717 626 5678

For Sale Freestall stanchions, (100) best offer, 3 yr old filly, JD 630. 717 235 1466 or 235 6776 York Co

MAILBOX MARKET

For Sale- Skid-loader, 16 hp hydra mac, bucket and manure fork, OMC stacker, very good cond., Centre Co 814-349-5938.

For Sale IHC 1466, 2/1 NH Baler with kicker, 1 pr 16 9x38 tires, 1-18 4x34 tire, York Co 717 993-6146

For Sale 1941 AC WD w/snow plow and chains, complete overhaul, new paint tires, 215-298-8172 after 5:30 p m Lehigh Co.

Wanted to rent A dairy farm for spring of 1982 in Lanc, Perry or Juniata Co 717-375 2498 Chambersburg, Pa.

Strawberries wanted starting June 15th Will need 1200 quarts a week Write 205 Yarmouth Ln, Media, Pa 19063.

For Sale- 7 yr. old Sorrel work horse, good broke with snap, Christ M Beiler, 2963 Miller Lane, Ronks, Pa

For Sale- 150 Choice feeder pigs 215-445-5796 Lanc Co

For Sale- Dalmations, AKC Reg Champion bloodlines, 6 weeks, perfect Christmas presents, $100 Dauphin Co 717-545 2491

For Sale- 3 Surge Bucket milkers, 2 extra pulsators, 6 milker straps, everything in good cond., $95 Lanc Co 717-656 8380

For Sale IH Model 9A 28 blade disc harrow pull type with 7 inch blade spacing, excellent condition, Lanc Co 717 872 7171

Wanted Farmall Super C or 200 series repairable or for parts, 2 pt hitch equipment for same, 717 868 5304 Luzerne Co

For Sale Ford round hay baler, 1500 lb bales made by Gehl, like new, 717 253 2063

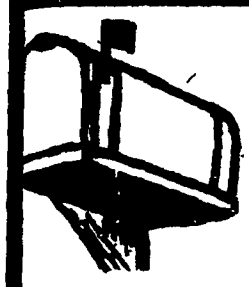
For Sale 15 KW generator, including trailer and pto shaft $925, also New Holland 365 tank spreader, $300 Lanc Co. 717 665-7256

For Sale- Surge 11 vacuum pump with motor, good cond., $75 717 374 8625 Snyder Co

For Sale AC HD5 crawler engine, 2-71 GM diesel rebuilt, Smucker's Repair Shop, Box 81, R1 Strasburg Pa 17579

For Sale- 74 Chevy, Nova two door, 350 engine, new paint new shocks, excellent cond., $1900 Parks Co 215 589-5228

For Sale Norwegian Elk hound pups, AKC Reg $75 and $100 Stud servie $50 Leb Co 717 838 4875 or 717 533 7677



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For Sale 90 guinea fowl, 5 lbs timothy hay #1 small lots, black walnuts, Sam King, 434 S Belmont Rd, Ronks Pa

For Sale 3 bred Hereford cows with calves at side $2100 Lanc Co /1/ 786 4633

Garden Spot FFA wishes to build calf hutches or other types of construction work /1/-464-3628 Lanc Co

For Sale- Turkeys, 60 cents per lb, Dressed, 80 cents per lb Lanc Co /1/ 656 8/69

Wanted NH Baler w/thrower, #2/5 or similar size must be in exc shape & price within reason /1/ 582-8346 eves 6 9 p m

For Sale 30 Angus cows, bred to freshen early spring, Potter Co 814 435 2314

For Sale- Large round hay bales, Snyder Co /1/ 374 4018

For Sale Perfection Kerosene space heater, /1/ 354 8384

Wanted Antique auto 1940 or earlier, send description and price, George Persinger, 4407 E Joppa Rd, Perry Hall, Md 21128

For Sale Flex Auger, 3 x 35 feet excellent condition, $275 complete Lanc Co /1/ 665-9466

For Sale Sputnik with compressor, excellent cond /1/-653 8294 Lanc Co

Wanted Finn-Rambouillet cross ewes, Schuylkill Co /1/ 943 2496

For Sale- Used Wisconsin motor for baler, Super 69 baler, Aaron S. Zook, RD2 Box 389, Parkesburg, Pa 19365

For Sale 1 Suffolk ram 4 yrs old, good cond, Lanc Co /1/ 284 4449

For Sale X Heavy Columbus No 609 vise swivel base $70 3 ton hydraulic jack, $35 Lanc Co 215 267 7049

For Sale AKC Reg. Collie pups, be ready to go week before Christmas taking orders, Franklin Co /1/ 328 2458

Wanted JD front mounted cultivator to fit 20 or 30 series tractors must be 4 row, 609-451 3877 Cumb Co NJ

MAILBOX MARKET

For Sale Reg Polled Hereford Vindicator daughter bred to son of Enforcer $1150 CMI Master Future /1/ 987 3395 evenings. Fulton Co

Wanted 6 ton clean Timothy or alfalfa, delivered, 201 /82 6162

For Sale 1970 Ford 900 truck tractor 477 gas 5 spd, 2 spd rear 10 20 tires, 22,000 lb rear 9,000 lb front, Cambria Co 814 472-9498

For Sale Farmall 460 gas tractor, narrow front, fast hitch, $2200 or best offer Wanted DeLaval bucket milker, Lanc Co /1/ 859 2421

For Sale, Black Labrador retriever puppies, eight weeks old, $25 Leb Co /1/ 949 3701

For Sale 1976 Gleaner Model L Combine, 13 ft head, air conditioning, electronic, monitor, good cond $15,000 Cumberland Co 609 451 0508

For Sale Rabbit pens feeder and bottles, 11 feeder pigs and two sows, 6 door showcase cooler, Juniata Co /1/ 444 3084

For Sale Gooseneck for 24 ft silo $60 Lanc Co /1/ 548 2469

For Sale 245 gal Butchers kettle, stands, Butcher Boy meat saw B16, Randall 50 lb meat stuffer, 215 /67 3534 Lehigh Co

For Sale 1000 board feet walnut lumber, 3 bottom mt plow on rubber, Schuylkill Co /1/ 345 8179 evenings

Wanted 30 inch ventilation fan for dairy barn, prefer with thermostat, Lanc Co 215 445 5734

For Sale AC 190 tractor, call after 4 p m, 302 368 4419

For Sale- Fresh & close springing 1st & 2nd calf Holsteins Reg & Grade, priced to sell, Franklin Co /1/ 263 5702

For Sale Ashley automatic model C45 wood stove, R1 Natvon, Oaklyn Drive, 1 mile south of Bowmansville

For Sale Baybrook hydraulic truck tail gate, good cond, $195 Bucks Co 215 598 7669

For Sale Floor model humidifier made by Herf Midifier Co, Lanc, Pa Model 684 with rotating evaporator belt, Lanc Co /1/ 733-3890

For Sale 300 MF diesel combine, 7 tooth Brady chisel plow, /1/-949 3077 Leb Co

Moving must sell 12 holsteins all stages lactation, will consider selling 2 or all Make an offer, Chester Co 215 932 5547

For Sale. Storage trailer, insulated, side & rear doors, sliding tandem, inside lights, dry, $1150 Chester Co 215 431 3183

Free to a good home Doberman pup 6 months old, unregistered female very playful, Call 215-932 9638, Oxford, Chester County

For Sale 15 holstein heifers ready to freshen, Southern Lanc Co /1/ 284-4618

For Sale 65 Dodge W 300 4 wheel drive dump truck with snowplow mechanically good body needs repair, Col Co /1/ 784 0528

For Sale IH 400 Clyco 4 row 38 no till corn planter w/monitor, clean, $2500 16 9x38 rear tire, /1/ 536 3241

For Sale Family & Production cows Registered Guernseys health accredited and production tested /1/ 359 4383 Adams Co

For Sale Four 60 lb can honey liquifier thermostatically controlled, also four frame stainless steel honey extractor Dauphin Co /1/ 896 8637

MAILBOX MARKET

For Sale Case 3 bottom 14 3 pt plows $275 8 ft pickup toolbox $50 Perry Co /1/ 56/ 9558

For Sale Speedway express wagon brand new, never used, $100 Lanc Co /1/ 299 7139

For Sale Healthy open gilts, pseudorabies free herd #38, Lanc Co 215 445 4649.

Wanted 63 to 72 Chevy car or truck for parts need 6 cylinder motors. Berks 215-488 1440

For Sale 8N Ford tractor $1775, NH 455 mower double guards $795 Oliver 2 & 1 bottom trailer plows, /1/ 354 0266

For Sale AKC Scottish Terrier pups, also Shar Pei pups, reasonable in time for Christmas, Lanc Co 215 445-6880

For Sale A complete herd of 25 sows and bred gilts in various stages, farrowing house included Franklin Co /1/ 375 4565

For Sale Belgian brood mare, due in march, David S Miller, Box 43, RD1, Newburg, Pa 17240, Cumberland Co

For Sale 63 Ford Econ ½ ton, needs clutch, best offer, 8 track car stereo for cassette stereo Ches Co 215-347 2232

For Sale 1972 Olds, 98, 4 door, inspected, fully equipped, good tires, good paint and rims fine, $750 /1/ 284 4612

For Sale Sears compressor, new, 2 hp, cost $595, bargain $315 Ford farm tractor, 8N w/3 pth $1675 Glouc Co 609 468-6286

Wanted- Bateman iron worker or similar machine, 215 795-2380

Do you want to give your children a good Christmas gift? Then buy him a Dutch rabbit, /1/-768 8821

Wanted High clearance self-propelled crop sprayer no more than five years old, 301 948 5072

For Sale Dachshunds, AKC puppies & champion stud service, long hair & smooth hair, Wanted- black cayuga ducks, 215-847-2137 Bucks.

For Sale- Airedale pups, males, AKC 8 wks, $100 ea and male 2 yrs for home on farm, 215-N14-8060 Chester Co

For Sale- 1977 25 Lastrada Travel Trailer, fully self-contained, full bath, air conditioning, /1/-569-6264 between 6 p m and 9 p m

For Sale Automatic suburban wood furnace master, use with existing hot air furnace, $350 Red Granular Ondutine roofing, 215-445 6885, Ephrata, Pa

For Sale New 12 ft Bear Cat cultipacker, York Co $800 /1/-235-1783

For Sale- Peg Mini Lopp bunnies, dwarf and dutch bunnies, meat rabbits, Victorian Loveseat chairs platform rocker, York Co /1/ 244 1177

For Sale 10 week old Reg Airdale puppies, & elevated calf stalls, /1/ 865-3462 Leb Co

For Sale Small bob sled in good condition, young and shaves included, $200 Centre Co 814-466-6078

For Sale- Blood tested Holstein heifers, springing, also red and white family cow, Lanc Co /1/ 354 5974

For Sale Molasses lick tank, (2) wheels, holds 100 gals $75 Also 16 JD green chop wagon, /1/ 286 9380 Northumberland Co

For Sale Cord wood saw, 16 flat bed wagon, pto manure spreader various snow plows, /1/ 345 4882

For Sale Female AKC Brittany Spaniel 1½ years old, hunts $65, cabinet type sewing machine,, /1/-273 6683 after 6 p m Leb Co

For Sale 30 bushel Weaverline feed cart 814 766 3310

MAILBOX MARKET

[illegible] gauge wheel also fits 400 snow blade 7 ft Berks Co /1/ 866 4286

For Sale- New Idea spreader 145 bu PTO good cond $550 Perry Co /1/ 789 3711

For Sale 1974 Oliver 2255 tractor, 4 wheel drive CAT engine 1550 hrs, clean, best offer Bucks Co 215 343 2444

For Sale 1978 Olds Delta Royale Diesel, 4 door sdean, AT, PB, PS, Cruise control air cond, AM FM CB, /1/ 653 1714

For Sale Superior drill press, industrial type, good cond, $400 /1/ 345 4020

For Sale 2-18 4x26 Rice & Cane tires and tubes, 206 Brady crap cooker for soybeans, Hunterdon Co 201-782 6682

Must Sell Due to Health AC CA tractor w/front rear weights, two bottom plow front-rear cultivator, Berks Co 215 682 2304 anytime

For Sale Manure loader with dirt pan, fits JD two cylinder tractors, good cond, $195 Lanc Co /1/-548 2559

For Sale Reg Hol Bull, sire Marvex, Dam Harrisburg Gay Ideal, records over 20,000 & 700F Lanc Co /1/ 653 5055

For Sale 2 match ponies rides and drives standard breed driving horse, ready to go, /1/ 656 9548

For Sale 1975 Snowmobile, Scorpion Super Stinger 400cc, excellent cond two pickup caps, Somerset Co, NJ 201-359-6069 after 6 30 p m

For Sale- Purebred collie pups, nicely marked, ready for Christmas, Elmer B Stoltzfus, 102 N Ronks Road, Ronks, Pa

For Sale 1979 Artic Cat Pantera, excellent cond, 270 miles Kept in garage, /1/-569 6264 6 p m and 9 p m

For Sale- 2x14 IHC trailer plow $60, power lift and cultivator set for Farmall, /1/-665-6458

Wanted- Manure bucket for 2000, IHC loader, 814-267-5248

For Sale- 2 new Magic Ray gas heaters, never used with hoses, $45, also new heat reclaimer, Lanc Co /1/-354-8238.

For Sale- 10 Brower hog brooders w/thermostat $75 each" Aaron E Lapp, R1, Box 429, New Holland, Pa 17557

For Sale- Two Holstein cows, milking 42 lb due in July to Marration, $800 ea Lanc Co /1/ 656 7205

For Sale JD 4010 diesel, WF, new batteries, less than 5 hrs after engine overhaul, $6500 Cumberland Co /1/ 532 3360

Wanted 8N Ford, 77 or 88 Oliver diesel for parts, also school bus parts, or useable, Berks 215 488 1440

For Sale Sauder loader with snow bucket Lanc Co /1/ 687 7982. $175.

For Sale Service age Glendell son, elevation dam full pedigree, Jonathan Lantz, Gordonville, Pa

For Sale- Coleman Gas iron, like new, used very little, Lanc Co 215 445 6274

For Sale Windbreaker complete w/windshield to fit Farmall M $50 Somerset Co 814 634 0682

Wanted AC 400 loader must be A1 For Sale MF 35 to 65 pulley $50 301 795 4281 Carrol Co Md

Wanted American Bosch starter SMH 12-A201 fits 16 hp holler working starter or main housing w/magnet intact, 301 475 2358 anytime except Sunday

Wanted Used kitchen sink and cabinets in fair condition, wood or metal Lanc Co 215 445 4289

MAILBOX MARKET

Wanted 2 row potatoe digger with good web /1/ 949 3590 Leb Co

For Sale 3 Angus bulls 9 12 months old good stock priced to sell, /1/ 349-2489

For Sale Purebred Landrace boars good selection top bloodlines Harper's Valley Farm /1/ 865 4842

For Sale TD6 Int crawler narrow gauge will run or would sell for parts, Omer S Stoltzfus, Madisonburg, Pa 16852

For Sale 4 head acclamated Charolais steer, 700 lb 69 cents, also some firewood, Lehigh 215 298-2269

For Sale Morgan 9 ft van body, rear and side doors, excellent /1/-872 4799 or /1/ 872 7667

For Sale Farmall M with two way hydraulics and new paint, $1200 Lehigh Co 215 285 6451

For Sale- South Bend Kitchen range, white w/black trim, water reservoir warming shelf, good cond $375 Lanc Co /1/ 898 2979

Wanted 1 overhead door, size 8x8 Schuylkill Co /1/-345 8696

For Sale Kenmore wood or coal stove Emanuel B Stoltzfus, Honey Brook, PA Box 87 RD #3, N Birdell Rd, 19344

For Sale- 4 H steer calf, very nice 5/8 Angus, 3/8 Limousin, halter broke, very quiet, $350, Chester Co 215 857 3949

For Sale- Pick up camper sleeps 4 full kitchen w/ice-box, gas range, storage, good cond, priced to sell. Evenings 301-692-6806

For Sale- 1968 4000 Ford Diesel Select-O-Matic shift, wide front, good cond 3800 hrs., $3600 Chester Co 215-857-2676

For Sale- Good tobacco shed to be torn down, 28 x46 $1000 Berks Co 215-589 4454

For Sale- Char Lynn Hydraulic Pump, PTO driven, Ideal for wood splitter, $150 Lanc Co /1/-548-2559

For Sale- Ear corn, timothy hay, wheat straw and a JD 16" 3 pt 4 bottom plow, Cumb Co /1/-243-1198

Wanted- Pickup truck, Ford F-150, 6 cylinder, stick shift, New Castle Co 302 994-2996 before 8 30 a m or after 7 p m

For Rent- Modern furnished condo available in Clearwater/St Pete, Florida for end of December by the week Leb Co /1/ 533-3144

For Sale- 1972 Chev Station wagon, inspected, ready to go Monroe Moser, RD3 Shenkel Rd, Boyertown, Pa 19512

For Sale- AKC Shetland Sheepdog puppy, tricolor 12 wks old Reasonable offer accepted. Berks Co 215 689-5426

For Sale- Purebred Yorkshire boars & gilts breeding age or younger Hereford bulls, cows heifers, Adams Co /1/ 677-8855 evenings only

For Sale Reg Heifers, 4 bred, 13 open, DHIA records up to 22,000 lbs. $18,200 takes all, /1/ 865-6836 Leb. Co

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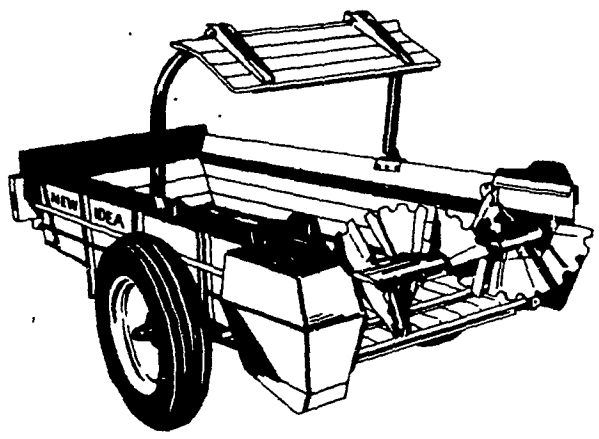

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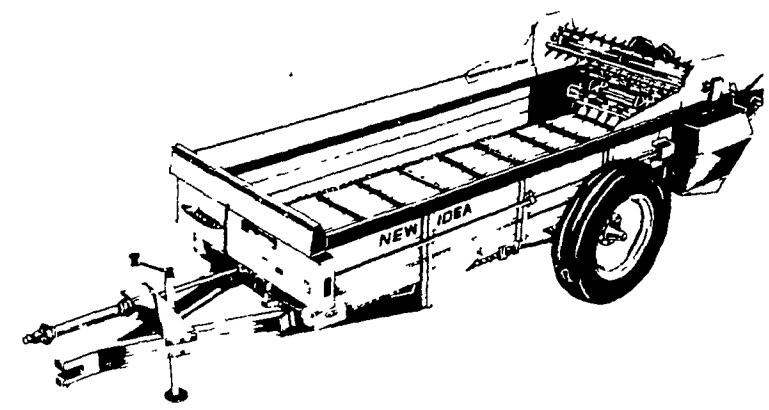

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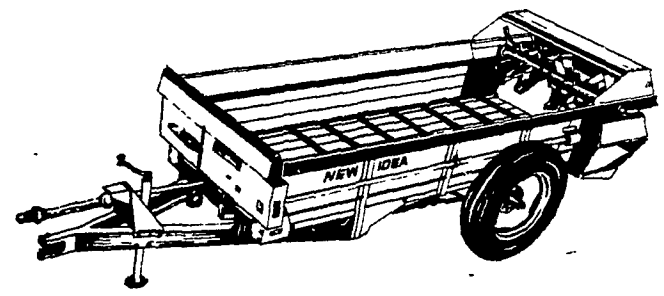

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Farm Business News

Brown named manager

CARLISLE — Marvin V. Brown Jr., former manager of the International Harvester farm equipment dealership at Ephrata, has been named General Manager of C & W Equipment, the IH dealership in Carlisle.

Brown had been employed in the Agricultural Division of International Harvester for 20 years after graduationg from Dicksinson College, Carlisle. His career with IH began in the Harrisburg District in 1954.

Brown and Fred Seibert, who will be working fulltime in sales, promise an aggressive parts, service and sales operation, designed to efficiently serve today's modern mechanized farmer.

M. V. Brown Jr.

Bob Bucher, Commonwealth's vice president-manager, Agriculture Loan Department, receives the first Distinguished Service Award from PEMA's Galen Buckwalter, right. With Bucher are Commonwealth's Herbert Kauffman, executive vice president; Rodney Miller, president, Lancaster region; and Pam Klahr, marketing representative.

ABS beef directory available

DE FOREST, WI. — To help cattlemen plan their 1982 breeding program, American Breeders Service has just released their new 40-page, full-color beef sire directory.

This year's directory offers a complete source of new genetics with over 70 bulls from 17 different breeds.

The directory is designed so cattlemen can easily select herd sires that meet their own breeding objectives for such important traits as calving ease, weaning and yearling growth, maternal traits and show-winning conformation.

Some of ABS' featured bulls include: C & B Western, a top Simmental trait leader for weaning weight, yearling weight and retail cuts per day of age; Band 174, one of the highest rated Angus growth bulls available with an Expected Progeny Difference of +28.2 lbs. weaning and +66.5 lbs. yearling; Double Time, another Simmental that offers a rare combination of calving ease plus tremendous growth; Mr. Jeff, a 3/4 black Chiania and sire of superior club calves; and Chief, the top performing bull in the Red Angus sire evaluation program.

If you're interested in breeding either all or part of your herd artificially, you can obtain a free copy of ABS' 1982 Sire Directory from your local ABS representative. Or contact American Breeders Service, Box 459, DeForest, WI 53532.

PEMA honors Commonwealth's 'eggstravagant' effort

LANCASTER — The Consumer Education and Research Committee of the Pennsylvania Egg Marketing Association has recognized the efforts of the Commonwealth National Bank in promoting, assisting and supporting the egg industry in 1981.

Their first Distinguished Service Award was presented to representatives of Commonwealth at PEMA's monthly meeting, held last Friday evening at the Sheraton Conestoga.

"The Committee recognizes that many persons and organizations have supported the egg industry during the past year. However, this award is designed to honor an allied organization for outstanding contribution," stated PEMA president Galen Buckwalter.

To qualify as an 'outstanding' egg promoter was as easy as stirring an omelet — that is unless its being fried in a 4½-foot pan. But that's just what Commonwealth National did to give May's Egg Month its biggest kickoff.

Along with the incredible omelette that was fried before the eyes of hundreds of spectators throughout southeastern Pennsylvania, the bank purchased 10,000 cookbooks featuring egg recipes, 2,000 egg spatulas and 2,000 egg separators that were handed out to customers.

And besides cooperating in the City of Lancaster's Egg Month promotion, Commonwealth put on its own campaign and cooked up more than 700 dozen eggs in the effort. This month-long promotion involved Commonwealth's 45 area branches, concentrating, however, on the York, Carlisle, Harrisburg, and Lancaster areas.

Commonwealth's advertising department went to work and coordinated the month's media coverage. The bank purchased full page ads and live radio coverage for the 'incredible, edible egg.'

In making the presentation last Friday, Buckwalter stated, "Tonight we applaude Commonwealth National Bank for their interest and contribution to our industry."

2 at Penn State get ASA posts

ATLANTA, GA — Two Penn State age research scientists were elected Fellows of the American Society of Agronomy at the society's annual banquet.

The Society membership now totals 843.

Elected from Penn State were:

Richard R. Hill Jr., research agronomist and research leader, U.S. Dept. of Agriculture, Agricultural Research Service, U.S. Regional Pasture Research Laboratory. His research deals with quantitative genetics and breeding methodology for autotetraploid alfalfa and other forage species. He has also conducted research on breeding for improved disease resistance and forage quality in alfalfa. He has served as associate editor and technical editor for Crop Science.

Gary W. Petersen, professor of soil genesis and morphology and co-director of the Office for Remote Sensing of Earth Resources. His major research efforts have been in the application of remote sensing to soil mapping, evaluation of soils for on-site waste disposal and the use of computer technology to improve soil interpretations. He was an editor of the Planning the Uses and Management of Land monograph.

Petersen was also elected a Fellow of the Soil Science Society of America.

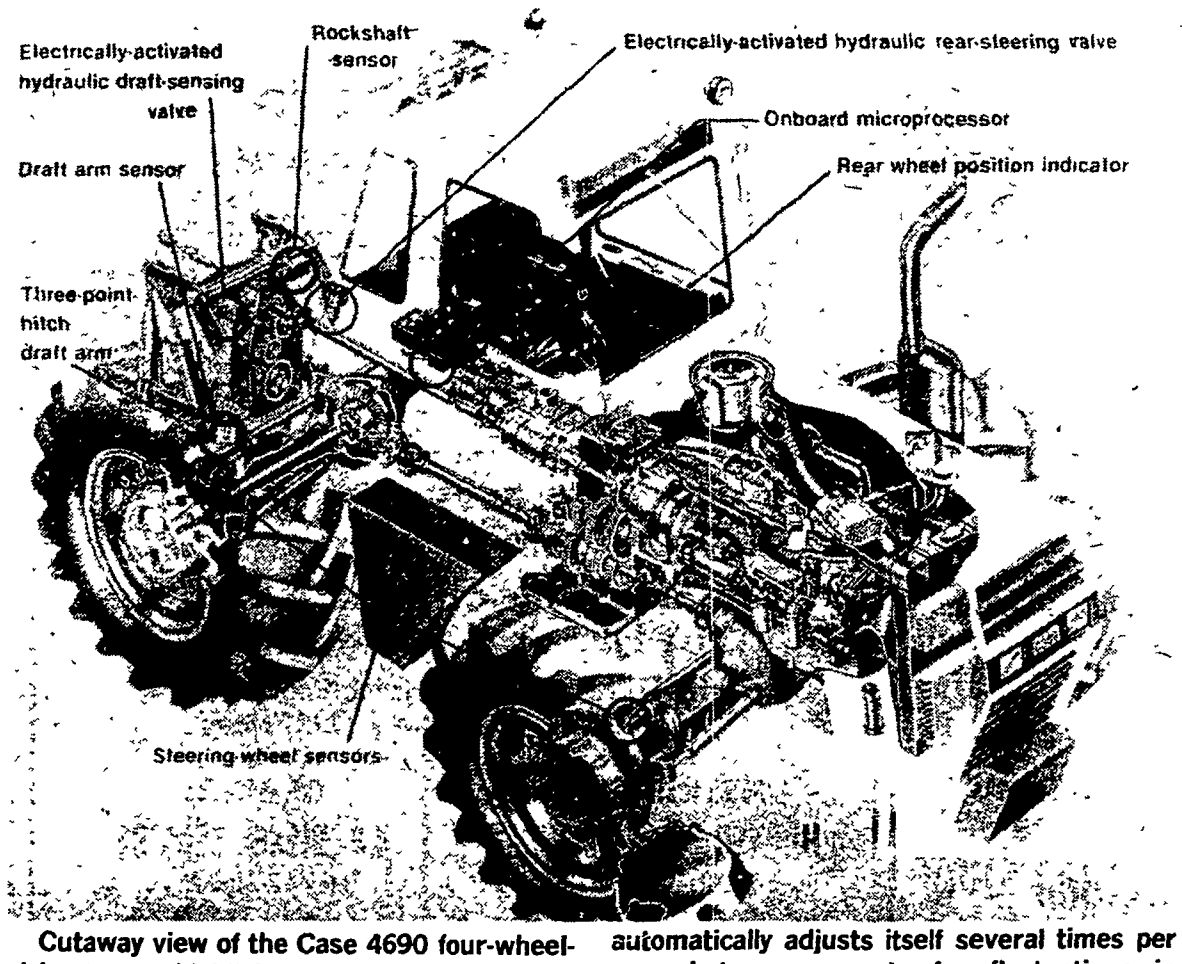
Case tractors feature new steering

RACINE, Wi. — J.I. Case 90 Series 4WD tractors now have two micro-electronic control systems for better steering for better steering maneuverability, three-point-hitch draft control and depth sensing. parts from the previous steering design.

The draft control system automatically adjusts itself several times per second to compensate for fluctuations in mounted draft loads caused by irregularities in soil and terrain.

Response time for the Case microelectronic draft sensing system is about three times faster than existing systems and was developed to meet the higher operating speed of 4WD tractors.

The 90 Series tractors also feature Case's unique Four-Wheel Selective Steering. The four steering modes include two-wheel front steering, four-wheel coordinated steering, rear-wheel steering and crab steering.



Cutaway view of the Case 4690 four-wheel-drive tractor highlights the major components in the microelectronic steering and draft control systems. The draft control system automatically adjusts itself several times per second to compensate for fluctuations in mounted draft loads.

Eberly coordinating Weaver's Manbeck account

NEW HOLLAND — Clair S. Eberly, R2, East Earl, has been promoted to the position of grow-out supervisor, at Victor F. Weaver, Inc., New Holland.

He joined Weaver in 1963 as an assistant production supervisor. Since then he has held numerous positions including that of production supervisor, operations supervisor-Denver Wood Products, flock serviceman, and more recently broiler flock supervisor.

Active in community organizations, he is a member of the Industrial Management Club of Lancaster, the Lancaster Poultry Association, and the Garden Spot Young Farmer's Association.

In his new position as grow-out supervisor, he will be responsible for coordinating the flock services and grow-out programs for Broiler Growers associated with the Manbeck Poultry Company account.

Clair Eberly

Land Bank retires excess stock

YORK — Local farmers, who get their long-term financing through the Federal Land Bank Association, will find a pleasant surprise in their mail boxes this month.

The Board of Directors of the Federal Land Bank Association of York has approved the retirement of most capital stock and participation certificates of the Federal Land Bank in excess of 6% of the unmatured principal balance.

This will mean a check to many of the farmer-borrowers who are also the owners of the Farm Credit Cooperatives.

Robert E. Vinson, General Manager of the York Association, said this week that his office hopes to have most of the checks in the mail within the next two weeks. He added that, "While individual payments may not seem to be significantly large in amount, the total fund will put more than $50,700 back into our Association's agricultural sectors this year along."

Gardner is ASA president

ATLANTA, Ga. — Charles O. Gardner, Foundation (Regents) Professor and professor of agronomy at the University of Nebraska-Lincoln, became president of the American Society of Agronomy recently during ceremonies at the society's annual banquet. He succeeds Sterling R. Olsen as head of the 11,500-member scientific, educational organization.

Gardner's major research focuses on quantitative genetic studies and their application to plant breeding, and on applications of statistics and computers to agronomic research.

He has made significant contributions in both theoretical and applied plant breeding, and in demonstration the utility of quantitative genetics as a general model and guide for plant breeding operations. He has also made contributions in negating and overdominance hypothesis as a major course of yield heterosis in corn, in developing efficient procedures for effective selection, and developing genetic models for studying quantitatively inherited traits.

Gardner has served as a technical consultant in plant breeding research for the United Nations, Queensland Australia Department of Agriculture, and the International Crops Research Institute for the Semi-Arid Tropics.

He became a Fellow of ASA in 1964.

Charles F. Eno, professor and chairman of the Soil Science Department at the University of Florida, has been elected president-elect of ASA. He will become president of the scientific, educational organization at the 1982 annual meeting in Anaheim, California.

Eno's area of specialization is in soil microbiology, soil fertility and administration. His accomplishments have involved studies on nitrogen transformation in soils; pioneer work with anhydrous ammonia as a fertilizer; soil-plant pesticide relations; and basic studies of the effects of irradiation on soil organisms, microbial processes, and the nutrient status of the soil.

A leader in developing soils programs in the southeastern United States, Eno has served on numerous ADA committees, including the executive committee and the board of directors. In addition, he was an associate editor of Agronomy Journal and president of the Soil Science Society of America. He is currently serving on the Council for Agricultural Science and Technology board of directors and the American Registry of Certified Professionals in Agronomy, Crops, and Soils board of directors.

An ASA Fellow (1965) and an SSSA Fellow (1976), Eno holds a B.S. and an M.S. from Ohio State University. He received a Ph.D. in soil microbiology from Purdue University.

Other newly-elected ASA officers for 1981-82 include: E.J. Bedker, U.S. Air Force, board representative, Land Use and Management (Division A-2); G.L. Jones, North Carolina State University, Raleigh, board representative, Extension Education (Division A-4); P.A. Sanchez, North Carolina State University, Raleigh, board representative, International Agronomy (Division A-6); and C.F. Douglas, University of Georgia, Tifton, board representative, Field Reseach Management (Division A-7, provisional).

Also, D.E. Green, Iowa State University, Ames, chairman-elect, Resident Education (Division A-1); G. E. Posler, Kansas State University, Manhattan, chairman-elec, Student Activities (Subdivision A-1a); O.C. Miller, U.S. Air Force, chairman-elec, Land Use and Management (Division A-2); and R. J. Reginato, Water Conservation Laboratory, Phoenix, chairman-elect, Agroclimatology and Agronomic Modeling (Division A-3).

In addition, W. K. Griffith, Potash and Phosphate Institute, Great Falls, Virginia, chairman-elect, Extension Education (Division A-4); V. Van Volk, Oregon State University, Corvallis, chairman-elect, Environmental Quality (Division A-5); S. K. DeDatta, International Rice Research Institute, Manila, Philippines, chairman-elect, International Agronomy (Division A-6); and G. A. Raines, University of Illinois, Urbana, chairman-elect, Field Research Management (Division A-7, provisional).

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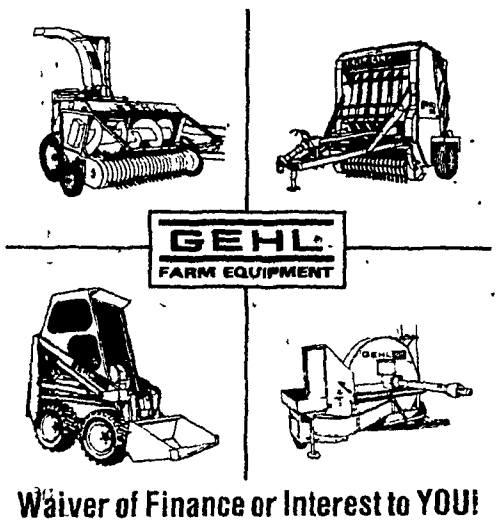

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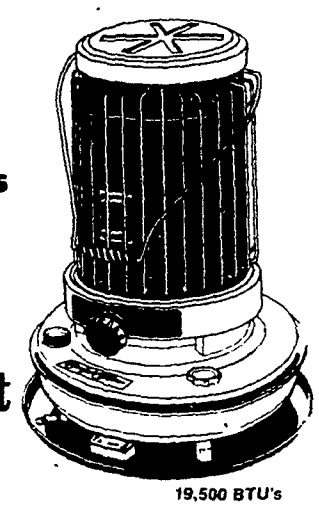

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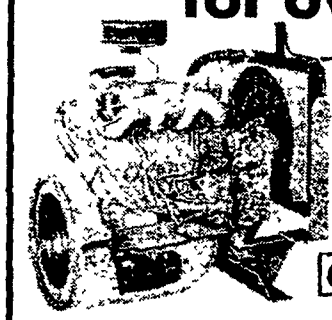

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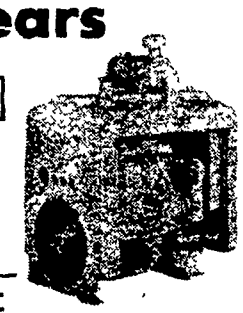

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Pioneer chief becomes Crop Society president

ATLANTA, Ga. — W.L. Brown, chairman and chief executive officer Pioneer Hi-Bred International, Inc., became president of the Crop Science Society of America earlier this month during the annual CSSA luncheon and awards program. He succeeds Kenneth J. Frey as head of the 5,400-member scientific, educational organization.

Brown's research contributions are in the areas of maize breeding, maize genetics and cytogenetics, evolutionary development of maize, and introgression of exotic germplasm into adapted genotypes.

He has directed the development and coordination of breeding programs in maize, sorghum, soybeans, and wheat throughout the United States and abroad. He is also active in conservation and utilization of plant genetic resources through membership on numerous committees and panels including chairmanship of the Rockfeller Foundation Maize Germplasm Committee, Maize Committee of the International Board of Plant Genetic Resources and vice chairmanship of the National Plant Genetic Resources Board.

A former Fulbright Scholar at the Imperial College of Tropical Agriculture in Trinidad, Brown holds degrees from Bridgewater College and Washington University. He became a Fellow of the American Society of Agronomy in 1970.

William L. Colville, professor and chairman of the Department of Agronomy at the University of Georgia, became president-elect of CSSA.

He will become president of scientific, educational organization at the 1982 annual meeting in Anaheim, California.

Colville's area of specialization centers around crop ecology, and production research and teaching. His research activities focus on production management, ecology, growth regulation, defoliation and microclimatology of forage and row crops. His research has led to a reconsideration of the role of plant population, row spacing and related factors in high productivity crop ecosystems.

A Fellow of the American Society of Agronomy (1968), Colville has served on numerous ASA and CSSA committees, including chairing the CSSA budget and finance committee and serving on the CSSA and ASA boards of directors. A recipient of the ASA Agronomic Education Award in 1969, he holds a B.S. from Iowa State University and an M.S. and Ph.D. from the University of Wisconsin.

Other newly-elected CSSA officers for 1981-82 include: H.F. Hodges, Mississippi State University, Mississippi State, board representative, Crop Physiology and Metabolism (Division C-2); J.H. Dunn, University of Missouri, Columbia, board representative, Turfgrass (Division C-5); W.R. Fehr, Iowa State University, Ames, chairman-elect, Crop Breeding, Genetics and Cytology (Division C-1); and T.R. Sinclair, University of Florida, Gainesville, chaiman-elect, Crop Physiology and Metabolism (Division C-2).

Also, R.R. Johnson, Deere and Company, Moline, Illinois, chairman-elect, Crop Ecology, Production and Management (Division C-3); D.M. TeKrony, University of Kentucky, Lexington, chairman-elect, Seed Production and Technology (Division C-4); R.C. Shearman, University of Nebraska, Lincoln, chairman-elect, Turfgrass (Division C-5); and H.N. LaFever, Ohio Agricultural Research and Development Center, Wooster, chairman-elect, Crop Quality and Utilization (Division C-6).

How much sulfur did you harvest?

NEW YORK, N.Y. — Corn and soybean growers should be on guard for soil sulfur deficiencies following this year's record and bumper harvests, advises Sam Tisdale, agronomist at the Sulphur Institute.

"The sudden increases in yields from 1980, plus the continued use of high-analysis NPK fertilizer, have created an environment conducive to sulfur deficiency," he explains.

"This is not to say that all corn and soybean growers need to use a sulfur-containing fertilizer. But they should be aware of the deficiency's potential."

The 8.08 billion bushels of corn harvested in 1981 removed up to 404,000 tons of plant nutrient sulfur from the soil, assuming 10 pounds were removed for each 100 bushels, Tisdale says.

And about nine pounds of sulfur were removed with each 30 bushels of soybeans. With a bumper crop of 2.11 billion bushels harvested in 1981, that's more than 316,000 tons of sulfur removed.

Crop yields in 1981 showed a dramatic increase over 1980 figures, thus making crop soils even more prone to sulfur deficiency. The U.S. corn crop was 22 percent larger than 1980s and nearly double the 1970 harvest. Soybean yields were up 18 percent from the previous year.

Sulfur fertilizer requirements for corn, soybeans and other crops depend on how much incidental sulfur the soil receives from other sources—whether it be from precipitation, irrigation water, crop residues, fertilizers or other agricultural chemicals. Soil sulfur losses from leaching and erosion must also be considered.

Sulfur deficiencies have become more common in recent years because today's concentrated grades of NPK fertilizers, unlike traditional forms of plant food such as ammonium sulfate and single superphosphate, contain little or no incidental sulfur.

In addition, today's modern organic pesticides do not contain enough sulfur to supply all or part of a crop's nutritional needs. And cleaner air resulting from pollution control regulations—particularly those stemming from the Clean Air Act of 1970—also has reduced amounts of "free" sulfur applied to the soil, notes Tisdale.

Need for plant nutrient sulfur is closely related to that of nitrogen, Tisdale adds. Because both nutrients are involved in protein synthesis, the full benefit of one depends on ample supply of the other.

As a general rule, the N:S ratio within a corn and soybean plant should be 10-12 parts N to one part S. A 5:1 ratio of applied nitrogen and sulfur fertilizer should help maintain this prescribed balance and ensure optimum crop yields and quality, Tisdale says.

"Adding nitrogen fertilizer alone to a sulfur-deficient field can actually suppress or decrease crop yield, thus limiting the return on one's nitrogen investment," Tisdale says. "Sulfur fertilizer, if needed, can play a key role in maximizing returns per acre. In times of depressed crop prices, it can even help minimize financial losses."

In addition to limiting yields per acre, a soil sulfur deficiency can reduce crop quality and protein content.

Tisdale urges growers to have their soil tested for sulfur, and follow up with a plant analysis to determine exact sulfur levels.

4 produce firms get penalities

WASHINGTON, D.C. — Four produce firms, two in New Jersey and one each in Maryland and New York, have received penalities under the USDA's Perishable Commodities Act.

Firms barred from operating in the produce industry after failure to make reparation awards ordered by the USDA include:

The New Jersey Tomato Company, Inc., Newark, N.J., received a $11,454 reparation award.

Tri-County Vegetable Peeling, Inc., of Rosenhayn, N.J., received a $7,724 reparation award.

Smithsburg Nursery and Greenhouses, Smithsburg, Md., received an $815 reparation award.

The three firms may not operate in the produce industry under PACA until their awards are paid.

Latin Belly Ltd., of Bronx, N.Y., had its produce trading license suspended after failing to make records relating to its interstate purchase of fruits and vegetables available to the USDA. The suspension will continue until the records are made available.

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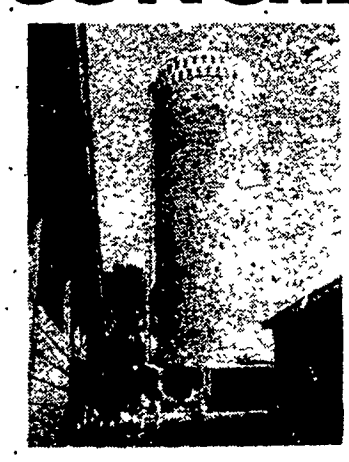

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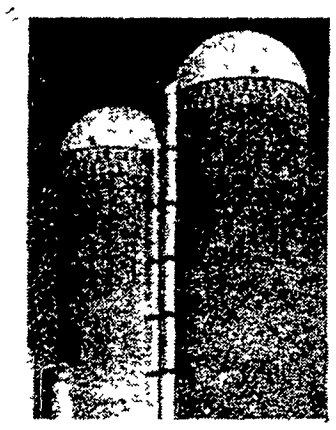

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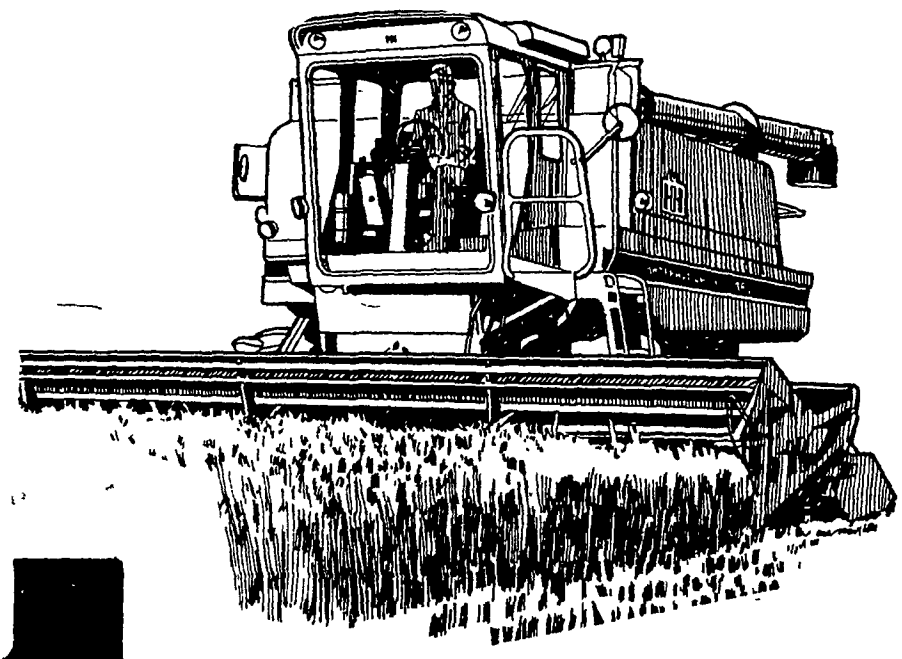

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Fla. agronomist tells how to grow 200 bushel corn

NEWARK, Del. — A corn plant is capable of producing ¾ pounds of grain per ear. At 30,000 plants to the acre, that's about 400 bushels. Currently, with good management and little luck, growers who irrigate in the Southeast are getting between 200 and 300 bushels.

During the recent fifth annual Delaware Irrigation Conference in Dover, Florida Extension agronomist Dave Wright described his system for growing 200 plus bushel corn.

Wright is an agronomy specialist at the Agricultural Research and Education Center in Quincy, Florida, where extensive work has been done with irrigated corn over the past 12 years. During that time, yields have risen from 125 to upward of 300 bushels an acre.

The reason for this increase, he said, was effective management of inputs. Besides water, critical factors affecting yield are early planting date; hybrids which have performed well in irrigated variety trials; excellent insect, nematode and weed control; plant populations of 26,000 to 30,000 an acre; proper tillage practices; rotations; and, above all, a good fertility program.

Skillful water management is essential for efficient use of other inputs, he said. He recommended placing soil moisture blocks or tensionmeters in the ground to a depth of six inches and 12 inches. Keep soil watered to a depth of eight to 10 inches, since almost 90 percent of the corn root system is in that layer.

About one inch of water should be applied per irrigation on sandy coastal plain soils when the six-inch tensiometers read 20 centibars. These gauges need frequent, periodic checks, especially in sandier soils, he cautioned. Use the 12-inch tensiometers to see whether you're over or underwatering.

"The water requirement of the corn plant is the same regardless of the soil it's growing in," said Wright. "The bucket's just bigger in clay than it is in sand." The most critical period of water use is during silking and ear fill.

He advised setting several tensionmeters (four to six) across the pivot to make sure you're putting on what you think you are. The sight or "toe test" doesn't give an accurate measure of soil moisture — you need to use a gauge, he said. At 20 centibars the soil may seem to be well moistened, but tests have shown that at this moisture level corn roots are beginning to experience some difficulty in absorbing water. Watering when the six-inch tensionmeters read 20 centibars resulted in about a 30-bushel yield increase over 60-centibar soil water tension.

In cases where an irrigation system isn't capable of delivering enough water to an entire field during critical periods, the agronomist suggested farmers plant half the field in corn and the other half in soybeans. Water only the corn until that crop is made. Then you can water the soybeans as needed.

Some growers go by ear appearance or a black layer in deciding when to stop irrigating maturing corn. Wright said sometimes plants continue to transpire even after corn looks ripe. So he prefers to use a tensiometer. That way you know when the plant has actually stopped taking up water. Corn should then be harvested promptly to avoid loss to insects and the weather.

Next to adequate water, proper fertility is essential for top yields. "You can do everything else right, but if you leave out one nutrient, you won't make your yields," Wright said. "Know the crop's requirements." And soil test.

He recommended applying lime six months before planting, phosphorus before or at planting, and zinc and manganese banded at planting. Most of the nitrogen should be sidedressed, along with sulfur and boron, during the growing season because these materials are subject to leaching. "We don't incorporate when we sidedress," he said. "With irrigation it's not necessary—even with no-till."

Use of planter fertilizer resulted in good growth response, silking about a week earlier, earlier maturity, and about a 15-bushel increase in yield. This is similar to test results reported in Delaware.

In work at the Quincy center, tissue analysis showed that the majority of potassium was taken up within the first four to eight weeks of plant growth, he reported. Later applications were of little help. He recommended growers use this year's tissue tests to determine next year's fertility program, so deficiencies can be avoided.

Nitrogen is critical to high yields. This nutrient should be scheduled for at least six applications over the growing season, along with a very small amount (20) pounds to the acre) at planting The reason for this is that the corn plant needs only about five percent of its total N uptake during the first four weeks of growth. If large amounts are put down at planting, hard rains may leach this out, leaving an insufficient amount for high yields.

Based on work at Quincy, at 30,000 plants per acre corn needs four pounds of nitrogen per acre per day for top yields. If plants look nitrogen-deficient at silking, they can still take up about 150 pounds between then and maturity, he said.

Tillage practices also affected yields, in work at the Quincy center. Where traffic pans exist, Wright said deep plowing to 10 inches or more has given yield increases, as has under-the-row subsoiling. No-till and minimum-till crops have done better in some years on deep sand which blows badly and dries out rapidly with in-row subsoiling.

He mentioned one study where corn, minimum-tilled into crimson clover, yielded between 150 and 175 bushels without additional nitrogen.

On the soil around Quincy he said periodic bottom plowing was needed to break up the shallow traffic pan and also to control weeds, insects and nematodes.

Close management of such factors is the key in producing 220 to 300 bushels of corn per acre yearly, he said.

FLB loans top $2 billion

BALTIMORE — The Federal Land Bank of Baltimore (FLB) has surpassed the financial milestone of $2 billion in outstanding loans.

One of three banks comprising the Farm Credit Banks of Baltimore, the FLB provides long term credit services to farmers through its affiliated Federal Land Bank Associations (FLBAs).

"While we are extremely pleased to have reached this important milestone, we feel it represents even more to the agricultural borrower," Banks' President Gene L. Swackhamer noted. "It means that the Farm Credit Banks have an enormous stake in the area's agriculture, and a strong commitment to agricultural service."

The Farm Credit Banks of Baltimore, which includes the Federal Intermediate Credit Bank (FICB), its affiliated Production Credit Associations (PCAs), and the Bank for Cooperatives (BC) serve farmers and agricultural cooperatives in Maryland, Delaware, Pennsylvania, Virginia, West Virgina, and the Commonwealth of Puerto Rico. These states and Puerto Rico comprise the Baltimore District of the nationwide Farm Credit System. The Baltimore Banks are the largest private agricultural lender in the District, with a combined loan volume of nearly $3 billion.

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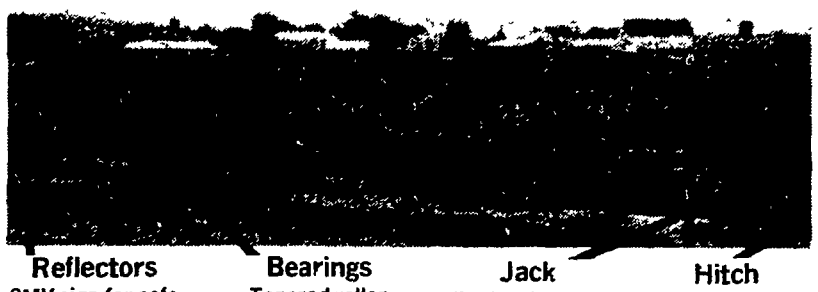

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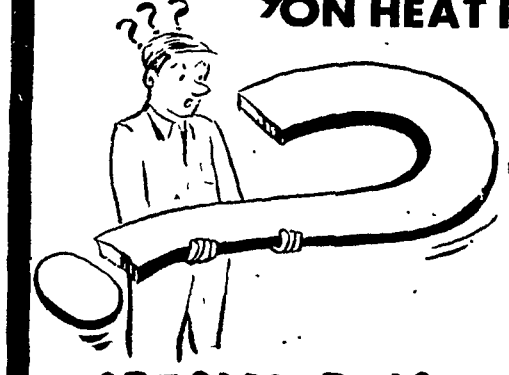

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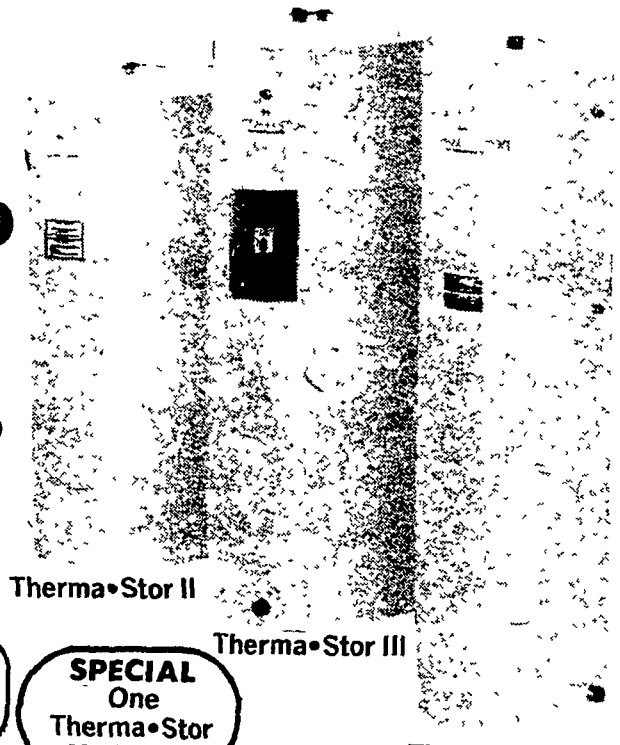

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Dayton 90,000 BTU portable kerosene heater, extra nice cond. Ready heater, 90,000 BTU, like new. 717-949-3074

Wanted to Buy - Stump Grinder. 703-721-2574

FARM EQUIPMENT

For Sale - Oliver 1750 diesel WFE over/direct drive, power steering, 2600 hrs. Many new parts in engine, engine guaranteed, tractor in excellent condition $8500. or best offer. 717-385-1908 or 717-933-4444.

JD #220 Centerfold disc, 18' spring cushions $3500. Parksburg. 215-857-3460 or 717-263-4956

1980 MF grain and bean combine header w/15ft. floating cutterbar and automatic height control, like new cond. Parksburg. 215-857-3460 or 717-263-4956.

JD 1010 crawler with angle blade, 290 original hours $3800 301-829-0271

Wanted - Ford tractor model 2000 or 2600 Must be clean. 914-651-7562

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- ☐ Horses & Mules
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Flintlock 'unloaded' if primer powder removed

HARRISBURG — Flintlock rifle users are cautioned to be especially careful during the upcoming flintlock deer season December 26 -January 2. Few flintlock accidents have been recorded in the past, and the Game Commission hopes the fine safety record can be maintained.

To avoid hardships on flintlock users, the Game Commission previously ruled that flintlocks are considered "unloaded" if the primer powder is removed from the pan. The Game Law provides that loaded guns are unlawful in a vehicle in Pennsylvania.

A flintlock uses two different types of black powder, one in the barrel of the gun and another on the pan outside the breech end of the barrel. When the trigger is pulled, the flint strikes the frizzen, producing a shower of sparks which ignites the powder in the pan, in turn burning through a tiny flashhole into the rifle barrel and igniting the powder there.

It is difficult to remove the projectile and powder from the rifle barrel without firing the gun, so the flintlock is considered by the Game Commission to be unloaded if the powder is removed from the pan.

Although the legal requirement for unloading the gun is met by removing the powder from the pan, some experienced flintlock users and safety officials feel the powder should be removed fromt the rifle barrel for the firearm to be completely safe.

Regardless of the method used to unload the gun during hunting hours, at the end of the day the gun should be discharged by firing into the ground or a dead tree stump or other suitable backstop.

American Heart Association
WE'RE FIGHTING FOR YOUR LIFE

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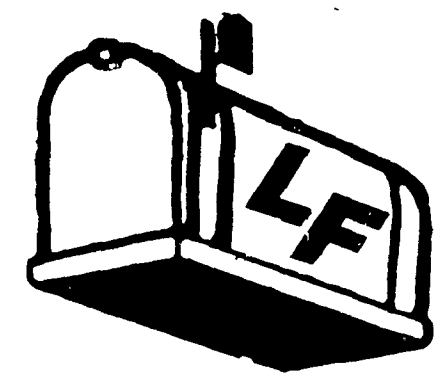

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FARM EQUIPMENT

Chisholm Ryder snap bean harvesters w/hydraulic dump wagons, reconditioned and painted, 609-769-3183

Old two cylinder John Deere fly wheels rebuilt with our patented steel draw- in hub which has the ability to tighten up on new or worn crank shafts Also available new manufactured unbreakable fly wheels Allen Machine Works, RD #7, Jonesboro, Tenn 37699, 615-753-5738 day or night

For Sale - Bale thrower wagons, steel or wooden sides with 6 or 8 ton gears, also Zimmerman elevator in 28, 32, 36 & 40' lengths, plywood feed bins. Will deliver and install, Stoltzfus Woo work, Rd 2, Gap, PA 17527, 1 mile north of Gap along 897, 717-442-8972

2520 JD, wide front, exc. shape. 814-793-4293

Farm tires and tubes, fronts, rears and implements, low, low prices, Eddie's Tire Outlet, Willow Street, PA 717-464-5008 or Chambersburg, PH: 717-263-0013.

Farmhand hyd. dump wagons, 5000 lb. capacity 609-769-3183

Used Farm Tractor Parts by the thousands. Wenger's. 717-866-2135.

Crawler Tractor Parts.

New and Used Parts Available for Cat, Allis Chalmers, IHC, Case, John Deere and others.

Rubber tired construction equipment parts available for Hough, Michigan, Galion and Cat Road Graders.

Call or write for equipment & parts brochure.

VILSMEIER EQUIPMENT INC.
Route 309
Montgomeryville, PA, 18936
Phone. 215-699-3533

Zook elevator, like new, Stephen E. Stoltzfus, 39-C N Hollander Rd., RD1, Gordonville, PA 17572.

JD 4010 diesel, cab, 814-793-4293

General 9 ton 3 axle tag along trailer, good cond. $2300

Hydro-turf seeder, powered by 1 cyl. Kohler, 500 gal capacity, $2000

VILSMEIER EQUIPMENT INC.
Construction Equipment Sales & Parts
Route 309
Montgomeryville, Pa 18936
Phone: 215-699-3533

For Sale - Cub Low Boy late model, yellow and white, one owner, turf tires, 5' hammerknife mower and snowblade. Phone 717-687-6553 or 717-687-8021.

Hydra Fold Auger Inc. - 6" or 8" gravity box auger; truck auger; grain bin drive unloading unit, little red toy wagon 149 N. Market St., Paxton, IL 60957. 217-379-2614

JD 530, new paint, exc. cond. 814-793-4293

JD 227 corn picker, good cond. 215-488-1965. Berks County.

For Sale - Oliver 2 bottom 12" or 14" Radex plows. JD KBA 20 and 24 disc., 8' or 9' cultipackers or sprocket packers. 717-687-6553 or 717-687-8021

For Sale - NI. E-Z Flow fert. Spreader, IHC fast hitch 4 bottom 14" plow (new bottoms). 717-687-6553 or 717-687-8021

CORN FODDER EQUIPMENT FOR SALE
MC 5' Corn Chopper
NH 56 & 55 Hay Rakes
NI 5 wheel rake, like new
Farmhand 5 wheel rake
NH 30' Elevator
NH 268 Baler
717-687-6553 or 717-687-8021

FARM EQUIPMENT

Model FW 60 Ford 4 wheel drive tractor w/350 HP engine, 20 speed trans, PTO, 3 pt hitch, 6 way angle bulldozer blade, 1000 hours. Two 4400 JD combines, diesel engines, floating grain tables, one has 300 hours, other has 600 hours 1976 double J Horse trailer All the above equipment is in just like new cond New V8 Cummins engine, never been used IH N MF suitcase front end weights. Model TW10 Ford Tractor 800 hrs, 12 roll MF Cultivator All equipment is being reduced in price for quick sale one week only 301-648-5442

1974 Case tractor model 1175, no cab, very good cond., 2000 hours, can deliver $9,500 804-633-9008

JD 40 spreader w/tailgate nice condition $1350 717-354-8859

Custom Bilt double chain wooden conveyors and tapered board feeders. Also flat and hay rack wagons SAMUEL K STOLTZFUS, 550 Beechdale Road, Bird-in-Hand, RD #1, Pa

Wide front for JD tractor 301-876-1956

For Sale - 1976 1210 Case diesel, 65 hp. $7500 Financing available. 717-866-7093 Lebanon Co

For Sale - JD 420 w/wide front. AC D17, wide front. Farmall 450, 400, 300, H & C NH 56 rake, NH 268 baler, all field ready 215-562-4464

IH 706 Gas 3 pt. new rubber, JD 494A corn planter, Brillion 4 Row high speed tool Bar cultivator, MF 7' 3 pt scraper blade, power angle snow plow for Ford pick-up. All this equipment in very good cond. Make offer York County. 717-993-6505

JD 1010 tractor w/cultivators and mower, exc. cond. 301-876-1956

For Sale - Snow blower 4½' wide for IH Cub, like new $200 Phone 215-488-7383 Berkc County

JD 2010, good cond 301-876-1956

For Sale - NH model 256 rake, also, NH model 472 haybine, both brand new, priced to sell. 717-532-7054

For Sale - White 2-35 with loader and 2 buckets, like new, also White 2 bottom plow, Imco 6' disc, 3 pt. hitch, NH sickle bar mowr, 3 pt. hitch. 215-857-3744.

Combine - Oliver 545 14' grain head 609-451-7463

One four row John Deere 1240 plateless corn planter with fiberglass maxi-merge fertilizer hoppers. Melvin Stoltzfus, Hegins, RD1, Pa. 17938 Schuylkill Co.

Wanted to buy - Used Brillion packer/seeders, any cond. 717-687-6553 or 687-8021.

For Sale - Brand new 8 hp Kohler engines, electric start, $325; 1980 Eager Beaver equipment trailer, 4 ton capacity with electric brakes, $2100. Also Farmall cub, Fore 9N, Farmall 'A', all with attachments. Call Bruce 609-358-7468

912 Deutz Diesel used 600 hours, reason for selling, going out of business. 717-483-6629 or see at Kanagy's Machinery Repair, Allensville, Pa

MF 184-4 62hp, 4 wh drive, 400 hours, $16,800. Antietam Ford Tractor. 301-791-1200.

1972 Ford 620 combine cab, power steering, floating grain head, corn head $60 bushel tank Good condition 4,000 or will trade toward 60-80 hp tractor. in Blairstown, NJ 201-746-3321

For Sale - M&W Robot head, 14' smoker corn drag, Bedford County, 814-735-3293.

FARM EQUIPMENT

IH 1086 tractor, cab, air, heater, radio 200 hrs Discontinuing farming 717-776 7724

MF 550 combine, 43 corn head, 13' grain head Many extras Like new 814-684 3057

JD 2020 gas $4,450 Antietam Ford Tractor 301-791-1200.

JD 1020 gas w/or without 143 loader very good condition, 2500 hours. JD 4020 diesel w/enclosure. 814-793-2339

IH 414 gas w/2000 loader $2,800 AC Combine C2 $2,500 MF 1150 tractor needs motor work $5,000 215-598-7546 or 598-7357.

Dion forage wagon, 3 beater w/roof on 16' wagon, 12 ton running gear Used 1 season Like new. NH forage blower 717-933-4893

1974 Oliver 2255 tractor for sale. 4 WD, Cat engine, 1550 hrs. Bucks Co. 215-343-2444

M-C chopper with V-M diesel. Used one season on steel. A-1 condition. $5200 717-382-4454

NH 890 harvester, long tongue, electric controls, 2 row narrow corn head, pick-up head, new knives, good cond. JD 125 chuckwagon, 3 beaters. 814-793-2339

For Sale - Farmall H $900. Best to call before 7 A.M. Berks Co. 215-683-7230

For Sale - Winpower PTO generator, 25,000-45,000, 12' utility elevator Somerset Co. 814-634-5480

JD 4320, cab, 3000 hours, 20-8.38 tires, 1116 front tires, good cond 814-793-2339.

Dyna-soar self-propelled aerial lift platform, $1600 717-762-6592

For Sale - JD chisel plow, 10' or 8' high clearance, $1000; MC flail chopper, good condition, $1400 Berks Co. 215-488-6501 or 215-488-1865

Will buy & sell all types of horse drawn equipment 215-593-5754

NI 214 spreader w/2 beater and litter pan, exc. cond. 717-949-3074

1974 IHC 966 Tractor, best offer. 201-236-6987

LOADERS
2 Swinger 100 loaders and 2 Swinger 200 loaders for sale. Good condition starting at $5800. Call 301-582-2264 between 6 & 7 A.M. No Sunday Calls

For Sale - International 915 combine, 844 cornhead, Farmall M, Dunham 7' cultipacker. Call 717-365-3562

JD diesel tractor model 820, less than 500 hours, bought 1977, including plow, harrow, front end loader, seeder, wheel weights. $7,000. 215-539-6541 or 215-275-1933

Woods belly-mount mower fits 8N or 9N Ford, Exc condition. $200 or best offer. 717-684-0661

NH 355 grinder-mixer, excellent condition 717-653-5020

Wanted - 2 row potato digger with good web. 717-949-3590 Lebanon Co

New steel plow sheers, moldboards, land sides, shins trash covers, 4 left and right plows. ½ price 215-286-5434.

For Sale - 8' Case disc harrow $90. 717-872-5841

1080 MF tractor on steel wheels, 3400 original hours Dual hydraulic Good Shape $5500. 717-423-6722

Lombardini Diesel for sale, 2000 hours, 21 horsepower, like new. Call 717-656-9605

For Sale - Brady Multi-crop chopper, post hole digger, Massey Ferguson corn picker, Allis Chalmers Combine, Reasonable Call 717-634-3222.

FARM EQUIPMENT

JD 4000 gas - weights. Good condition. JD 730 gas needs work, JD 320 excellent Will trade 717-334-6416

For Sale - JD 3010 real good running condition $4800 Cumberland Co 717-776-6143

830 JD diesel 814-793-4293

Farmers & Dealers -- Your advertising pays for itself when you advertise your equipment in the farm equipment section. 717-394-3047 or 717-626-1164

670 Moline diesel. 814-793-4293.

Combine, Harvester and Corn Head Parts For Sale off used machines Wenger's 717-866-2135.

SILOS/HAY FEEDING WAGON - $1100 One Lamco 20' w/wooden sides. $1800 One Shoessow 20'. $2200 Two Shoessow 25' both w/tandem wheels and all metal. 717-367-5420.

One Used Patz liquid-vator (manure pump). 25 feet long with a 5 hp motor Used only two years, very good condition. $2500. Centre County. Phone. 814-355-5941 or 814-355-4231

For Sale - JD 24T baler with JD 2 ejector. Excellent $1000. Call 717-761-0651 after 8 PM

For Sale - Straw spreader for 6600 JD combine and 1 for 477 combine. 609-298-3342

JD 148 loader w/controls, brackets for 3020 or 4020. Like new. $1600. 717-354-8859.

IH 710 5 btm. plow, good condition. 717-653-5020

KABOTA Mod. L 245 DT, 4WD, with Mod. L1717 Loader, Cat. 1 3 Pt. hitch with Woods RM 59 rear mower. One owner, low hours, $8,000 buys all. 6 ton 2 axle trailer available for $2,000.00. 302-239-2735

Ford 145 ROLLOVER (2-Way) Plow. 4x8" 3 pt $2,375. 301-845-4561

NI loader, good shape, universal mount, came off of 4020 JD. $495. 717-792-1366.

MF model 1080, 1972, very good condition 717-532-7054

FARM EQUIPMENT

NI 325-326, 8 roll narrow row corn picker
NI 737 Husking Unit
AC 7000 Tractor
AC 5040 Tractor
AC 170 Gas Tractor
AC D17 Gas Tractor
NI 702 Diesel Power Unit
NI 213 Manure Spreader

ROY H. BUCH INC.
Ephrata
717-859-2441

DEUTZ

USED TRACTORS & EQUIPT. IN STOCK

Massey Ferguson MF2675 w/cab, 100 h.p, 24 speed trans. Spl. price cash - $20,000.00

Deutz D4006, good engine. Dyno test, 48 pto h.p. 2400 hrs. $4800

1 pair 20.8x38 tires - Goodyear power torque

NEW TRACTORS & EQUIPT. IN STOCK

D6807 Deutz Tractor, 68 h.p.

D6206 Deutz Tractor, 61 h.p.

D5207 Deutz Tractor, 52 h.p.

D4507 Deutz Tractor, 45 h.p.

DX 120 Deutz Tractor, 110 h.p.

DX 120A Deutz tractor, 4WD, 110 h.p.

Custom-built diesel Gen-Sets made to order

New & Used Deutz diesel engines at special prices. Call for details

New Deutz F2L-912 diesel engines 20-32 H.P. electric start.

Stauffer Diesel Inc.
312 West Main Street
New Holland, PA
PHONE 717-354-4181

FARM EQUIPMENT

JD 4000 1972 model tractor, wf, ps, new rear tires, good condition 301-733-1873. 9-5.

USED EQUIPMENT FOR SALE

Fox Super D w/Diesel engines w/cab and heads
NI 702 Uni System w/ diesel engine, chopper and Forage Heads
NI 3 Row Snapper Head, like new

717-627-3665

TRACTORS

Ford 5600, Low hrs.
Ford 2600 Gas, PS
Ford 8000 w/dual wheels
Ford 5000 D 8 Speed Dual Power
Ford 4500 w/Loader & Hoe
Ford 2000 w/blade
Ford NAA 12 Speed
Ford 4500 Loader & 3 pt.
Ford 4400 Loader & 3 pt.
Ford 4000 w/Loader
Ford 801 D PS
Ford 9N w/Loader
Ford 8N w/Blade
IH 666 D WFE
IH 504 G, 3 pt.
IH M w/loader
AC 5040
AC 160D
AC D17 G
Case 630 w/PS
MF 235 G, PS
MF 135 G Live PTO
MF 135D, 8 speed
MF 65 G, PS
JD 3020 D WFE
JD 730 D 3 pt.
Satoh w/Woods mower

EQUIPMENT

IH 50 Bushel Spreader
Woods C80 Mower
Ford 5x16 Plow
Ford 4x16 Plow
Ford Flail Mower
MC Flail Chopper
NH Flail Chopper
Ford Post Hole Digger

KELLER'S FARM MACHINERY, INC.
116 Richlandtown Pike
Quakertown, PA 18951
215-536-4046

FARM EQUIPMENT

NH 1469 Haybine $7500.
Gleaner G Combine w/grain table 4 Row Corn Head $15,500.
NI 323 Corn Picker $2750
JD Hyd. Bale Tosser late model, Ex cond $800.
WENTZ FARM SUPPLY
Palm, Pa.
215-679-7164

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USED EQUIPMENT
NH 770 Harvester w/2 Row Head
Hesston PT10 Haybine
NH 315 Baler w/thrower, (Demo)
Loader for AC 160

USED DISCS
2311 AC
Taylorway 10'

USED TRACTORS
AC 5050 w/Loader, only 98 hrs., like new
Ford Jubilee
Used Lawn & Garden Tractors w/mowers

NEW EQUIPMENT AT USED PRICES
Many Models New Holland Spreaders

NEW EQUIPMENT
Amco Disc
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NEW HOLLAND MANURE SPREADERS

EXTRA DISCOUNT ON NEW AC TRACTORS
Call for details
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AC 5050
AC 7010

BHM FARM EQUIPMENT INC.
RD1, Annville, PA
717-867-2211

LANCASTER SILO CO., INC.

STARLINE - SUPREME
VAN DALE
SILO UNLOADERS

2008 HORSESHOE ROAD
LANCASTER, PA. 17601

"LANCASTER" CONVEYORS
TAPER BOARD FEEDERS
BELT FEEDERS

"SILO UNLOADERS"!! YES, WE ARE THE UNLOADER SPECIALISTS FOR THIS AREA. WHY?? - BECAUSE WE OFFER MORE –

STARLINE #70 UNLOADER:
Economy-Direct Drive, unloader for Silos 12' - 14' - 16' Excellent for High Moisture Ground Ear Corn. We have New Unloaders and a complete stock of Re-conditioned Starline.

VAN DALE "MAGNUM" UNLOADERS:
The Large Capacity Unloader for Large Silos. A Super Haylage Unit. Available 16 Ft. thru 30 Ft.

SUPREME UNLOADERS:
A new addition to our Equipment List. This heavy-duty unloader is available as RING-DRIVE or Surface Drive. This Ring-Drive Unit can be installed in silos with regular Tripod & Single Cable. Replacement Unit for any Silo unloader conversion. Sizes from 12 Ft. thru 24 Ft.

EQUIPMENT SPECIALS
1 - USED 80 FT. TAPER BOARD FEEDER
REBUILT STARLINE SILO UNLOADERS
USED BADGER SILO UNLOADERS

CASH DISCOUNT SPECIALS:
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1 - 250 CUMMINGS DIESEL POWER UNIT

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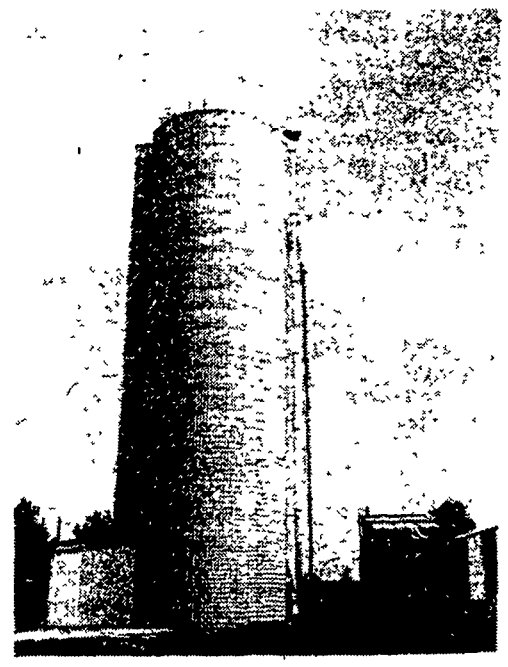
MANUFACTURER & BUILDER OF QUALITY WET-CAST CONCRETE STAVE FARM SILOS



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PLAN NOW FOR CORN SILAGE ACRES. CORN SILAGE GIVES MORE TONS - MORE ENERGY - MORE T.D.N. BEST FEED PER ACRE FOR SMALL OR LIMITED ACRE FARMS.

MORE FOR YOU - IN 1982

FARM EQUIPMENT

Wanted - 2800 JD on land plow. 703-721-2643 after 6 P.M.

USED EQUIPMENT

TRACTORS:

- Waiver of Finance on Used Tractors To March 1, 1982

IH 1566 D., Cab & Air, 30.5x32 tires, new TA, Real Nice
JD 4520, 20.8x38 Radials, No Cab
IH 560 Gas, 400 Gas, 300 Gas
IH 706 Gas, Wide Front End
IH Super MTA —
IH 350 High Utility
IH 350 Farmall
IH 544 Gas w/2000 Loader
MF 165 Diesel, $3900
JD 1010 Gas w/Tricycle Front End, $1700
Oliver 1800 Gas, Wide Front End, over & under $4500
Farmall 300 3 ph, real nice

TILLAGE:

IH 760 14' Offset Disc
IH 475 13'5 Disc Harrow
Bush Hog 18' Folding Disc
Pittsburg 12' Disc
Oliver 251 9' Disc, Real Nice
IH 370, 350, 37, 35 In Various Sizes
JD 18' Trailing Spring Tooth Harrow
JD 12' 3-Rank Chisel
JD 1600 3-Shank Chisel Plow w/ga. wheels SOLD
Oliver 4-Bot. Semi-Mtd. Plow

PLANTERS:

Int. 663 6-Row Cultivator
4 & 6-Row Cyclos, Field Ready!
JD FBB 17x7 Comb. Single Disc, Good Shape!
JD 494-A, DD, 4-Row Planter
IH No. 10 13x7 Plain Drill
IH No. 10 16x7 Single Disc, Comb., Hyd. Lift
IH No. 10 16x7 Single Disc, Comb.
Oliver 24x6 Combination Drill
Oliver 17x7 Combination Drill
MF 13x7 Comb. Drill

COMBINES:

- 915 Combine, Low Hours, Like New
- (1) 844 Cornhead
- 810 15' Floating Cutting Bar
- Waiver of Finance to 9/1/82

IH 403 w. 4-Row Wide Head & 12 ft. Grain Platform
IH 315, 2-Row Wide Head
IH 205 w/227 Head
IH 203 w/2 Row Head
IH 227 Cornhead, fits 315, 205 or 203
Straw Chopper for Gleaner M

HAY & FORAGE EQUIPMENT:

#8 Flail Chopper, Like New
JD 115 Forage Wagon
Gehl 800 Recutter Blower
Model BN98 Badger Blower
Gehl FBB 88 Blower
38 JD Chopper
550 IH Chopper
36 NH Flail Chopper
33 NH Flail Chopper
(2) 990 Int. Mower Cond., 9 ft.
1014 Hesston Mower Cond.
420T Hesston S.P.
NH 479 Haybine
NH 276 Baler with Thrower, Real Nice!
MF DEO-20 3 pt. Hitch, 5 Bar Rake

ERB & HENRY EQUIP., INC.
New Berlinville, PA 19545
Ph: (215) 367-2169
Daily 7 to 5
Sat. 7 to 1

FARM EQUIPMENT

HI-PRESSURE HYPRO PUMP
Build your own washer with a Hypro 0 to 1200 PSI pump. Pumps, nozzles, hand guns.
EECO, INC.
Harrisburg, Pa. 17110
717-238-9423

TRACTORS

- Case VAC
- Case 930 Tractor "CK"
- Case 430
- David Brown 990 w. Loader
- 990 David Brown
- David Brown 1410
- White 2-105 Tractor
- AC 175D Tractor
- AC "B" Tractor
- C Farmall tractor with Cultivator, Corn-planter & Snowplow

LOADERS

- Case 1537 Skid Loader
- Case 450 Crawler Loader
- Case 450 Crawler Dozer
- 1845 Diesel Uni-Loader

TILLAGE

- Case Disc Harrow, 10'
- MF 12 Ft. Spring Tooth Harrow
- Oliver, 2 Bot. Trailer Plows
- JD 10' Cultipacker
- Used Cultipacker
- Brady Chisel Plow

HARVESTING EQUIPMENT

- Gehl 600 Harvester, 2 Row Cornhead and Pickup Head
- NI Unisystem 701 Tractor
- NI Unisystem 702 Tractor, 710 Combine & 760 Harvester
- NI 727 Husking Bed
- NI 323 1-Row Corn-picker
- NI No 10 1-Row Corn-picker
- NI 2-Row Cornpicker
- Int. Mtd Picker, 2 Row
- IH 550 Harvester w/Pickup
- JD No. 25 Harvester
- Case 300 Harvester
- JD Chopper
- NH 717 Harvester w/Pickup
- Dion Self-Unloading Wagon
- NH Forage Blower

HAY EQUIPMENT

- NH 469 Windrower
- Hesston 1014 12' Windrower
- Hesston PT 10
- Dump Rake
- 3 pt. Hookup Mower
- Bale Thrower Wagon
- JD Hay Rake
- NI Hay Rake
- NH 66 Baler

MISCELLANEOUS

- Ford 4-Row Corn Planter
- JD 2-Row Planter
- JD 494 Corn Planter 4-row
- IH 400 Corn Planter, 8 Row
- 10 Used Spreaders
- NI 17 Spreader
- NI 224 10-ton Spreader
- Potato Grader
- Dump Wagon
- IH Weigh Mixer

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SPECIAL PRICES!
- 1200 Bu. Corn Cribs
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NI 214 spreader, extra clean, exc. cond.
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Hesston 1010 Hydro Swing Windrower
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JD 694A Planter
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JD 105 Combine
JD 727 rotary mower
JD 244 Cornhead
JD 1250 corn planter
JD 214WS Baler
JD 346W Baler w/kicker
NH 273 baler
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JD 2440
JD 2640
JD 2940
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JD 2800 5B Plow

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(Combines) New JD 4420 fully equipt. w/213 grain & 443 C.H. list for $71,400. our price $56,900. MF 750 Hydra D w/air, purchased new in '79, fully equipt. (SOLD) w/grain & 1144CH, 1976 Gleaner FD w/air and both heads (1 local owner); JD 6600 Side Hill turbo, hydro, floating cutter bar, and choice of corn heads, real nice; Used JD 8820 fully eq. like new w/grain and 843 C.H., 1979 MF 550D, excel. w/grain and corn heads. 1975 MF 510 hydra. w/grain and corn. 1973 Int. 915 gas w/grain head under $10,000. 1976 Gleaner K w/cab and grain never used in corn, MF 510D Hydrostatic w/mud hog rear wheel drive w/Quick tach grain and 44 Lo Profile corn head. 1968 Gleaner CII diesel w/cab and 4 row C.H., JD 7700 D w/grain & corn head, JD 6600 D w/air & 13 Ft. grain. JD 55 sq. back corn special w/cab and 2 heads; Int 715 gas w/cab, 810 grain and 844 C.H., Int. 810-15 ft. floating cutter bar, Oliver 25 w/cab.
1440 axial Flow (SOLD) w/520; 1977 Int. 915 w/rear wheel drive, grain and 863 C.H.; Gleaner M Diesel late model w/grain and A630 C.H. Late model Int. 303 w/cab, N.H. 985 w/cab and grain and 3 row 30" C.H. or 4 row 38" C.H.
N.I. 702 D w/767 Super Chopper. N.I. 702 D w/husking bed and 3 row C.H., NI 702 w/729 A sheller, 702 D w/rebuilt motor. JD 643, 243, 444 C.H.; NI 325 w/12 roll 324 w/12 roll; New Farmall 986 w/Rops $18,800; New MF 2705 cab, air, $27,000; New N.H. 489 haybine; New N.H. 315 Baler; N.H. 268 Baler w/thrower; N.H. 68 balers w/throwers; NI 323 one row $2475.
TRACTORS & EQUIP. Farmall 1566 w/cab and duals, new JD 4240 C.A. Q.R., Oliver 1855 w/factory cab. Farmall 560 D WF, Used Farmall 1086 w/R.G., Canopy, White 2-105 w/roll guard, ACXT190 real nice, Ford 4000D w/1400 hrs. excl., M.F. 165 Tri D. N.H. 1010 Bale Stack Wagon, 3 new Bush Hog Chisel plows 9 & 11 ft. all w/gauge wheels; Used JD 2640. Corn Heads. Gleaner K330, FL430, E330, A430 for F or F2, MF 421.
NEW FARMALLS: New 986 C.A. new 3388 2+2, New JD 4240 w/Roll Guard & Q.R. $24,900; New 4040 w/Power Shift and R.G. for $23,950, JD 3020 w/Diff Lock; JD 2020, Used Farmall 886 w/R.G. real nice, 1066 w/red cab, Farmall 706 w/310 (SOLD) diesel, 560 tri D. F.H., Farmall 560D w/2000 loader, Farmall 1256 w/cab & air, Farmall 504 Utility gas (SOLD) w/3 pt., 1970 JD 4020 W.F., 2 New Haybines, New Gehl 1090 9' for $4450, New NI 299 for $4250, (3) real nice balers, Int. 445 baler w/thrower just like a new one $3500 less than dealer cost. NH 320 w/thrower, used 1 season. NH 277 w/thrower, JD 24T w/#30 kicker
Corn Heads JD 643, 444, 344, 435N, 313 for 45C, 334, 235, Massey Ferguson 44, 63, 43, 24, 33, 222, 422, Gleaner G435 L438, F430, F438, A430, E240, K238, F335, F330, K330, N.H. 4-row quick tach, Int. 864, 844, 843, 744, 743, 227, NI 4-row 40" heads, Case 4 row 40", MF 44 & 43 Lo Profile, Int. 744 for 715, Int. 6 row, 30" for 503, NH 4 row 38" C.H. New JD 444, $7350. Just Rec. - New JD 643 for $10,800, used White 704N, 706N C.H. used JD 444 for $3500.
Nine Tractors just dealt for. New AC 185D w/roll guard, used Farmall 886 w/cab w/800 hrs., John Deere 2640 w/R.G. 2440 w/R.G. 2-2840, 3020 utility D w/148 loader, 5020 w/large tires, Ford TW20 w/cab (damaged, call for details).
TRACTORS 1977 JD 4230 cab, air, quad, real nice. JD 5020 original w/dual wheels; JD 2940 w/front wheel drive and cab, used 360 hrs. for $18,800. JD 4430 CA Quad w/long axles for duals; JD 6030 C.A. Duals, real sharp; JD 6030 cab and duals, fair; JD 4520 w/triple hyd. for 11,900. Nice, JD 4320 for $11,850.Farmall used 986 cab and air, 1566 cab and air w/new T.A., for $18,000. Farmall 706 gas w/TA and 3 pt. original real good for $4500. Farmall 544 gas W.F. Farmall 706D WF & 3 pt.; NI 324 picker w/super sheller used 80 acres.
CORN PICKERS - (new) N.I. 324 w/12 roll bed; NEW New Idea 325 w/12 roll bed, Used (4) N.I. 324 w/12 roll bed, (1) NI 325 N w/12 roll bed (325 N. w/sheller), NI 3 row 30" picker w/super sheller, New Idea shellers and Super shellers, N.I. 2 row 30" picker w/grinder. Int. 234 w/12 roll bed. JD 3800 2 row chopper
John Deere 8630-4 Wh. Drive w/3 pt. PTO & Dual Wheels, real nice, also AC #2600 - 28 ft. Hyd. wing disk, like new, J.D. 7520 w/3 pt. & Dual Wheels. JD 4020 w/58 Loader, Farmall 1206 w/cab. New JD 4440 cab, air, power shift. J.D. 4010 gas. JD 4020 gas $4900. JD 4430 C.A. QR, 1970 JD 4020 w/roll guard; JD 4320 w/cab, 2-JD 1970 4020 w/dual hyd., 1970 JD 4020 Power Shift & Dual Hyd., Farmall 856 - nice.
Farmall - 1568 - V8 w/cab & air used 1000 hrs., used 686 w/cab & air, 1566 w/cab, 766 D; 1466 w/cab..
Steiger Bearcat 4 whl. drive w/dual wheels and new motor in excell. cond.; Gleaner E Combine w/cab, grain and corn head; Farmall 1206, 460 Gas w/F.H., Farmall, 756 gas, 560, 856 w/front wheel drive, Farmall Hi Crop- 656 diesel, 756, Cub Loboy w/mower, Cub w/mower and F.H.
HARVESTERS. New Int. 720 w/2 row, JD 38 w/2 row pickup N.H. 770 w/2 row, J.D. 38 Chopper w/2 row, NI 3 row, Fox 2 row 30", Fox 3 row 30", Fox 2 row snapper head. JD 1 row snapper head like new.
ALLIS CHALMERS 7080 w/cab & duals $18,800, 7040 w/cab, power shift like new, AC 200 w/cab & air, AC 185 - $10,400, low hrs., 210 w/new 20.8x38 tires.
JOHN DEERE New JD 4440 cab, air, power shift, $35,900. New JD 4440 cab, air Quad 34,500, used JD 4430 - 4 post, power shift, used 4230 cab, air, QR, nice, 1975 - 4430 C.A. QR. sharp. 4030, 5020 tractor puller, 1972 JD 4000 D P.S. 1 local owner sharp. JD 2840 (SOLD) w/260 hrs., like new, 4010D w/WF, 730D, 720 D. 60 w/3 pt., 520. JD 3020 P.S. Gas JD 4030 w/R.G. and Quad., JD A.
FARMALLS: used 1586 w/cab fully eq. w/duals, used 500 hrs. like new, 1586 w/cab, fully equip. w/dual wheels and dual PTO real nice, used 1086 w/cab, air, 1 owner-looks like new; used 1086 w/Rops, 966 black stripe w/roll guard, 1066 red cab & air, 856 w/3 pt. and 38" tires, 1206, 806 w/3 pt. & 38" wheels, Farmall 656 Diesel & 656 gas, 766, 1456, 806, Farmall hydro 70 w/w.f and 3 pt., 826 hydro D nice. Int. 674, Int. 574, 460 Dsl. TA, nice, $2275, 400 w/P.S. & F.H., Super C w/cult. and 7 ft. mower, Ford 6000 tri D for $1975.00.
New White 2-105 w/cab $22,850. Oliver 1755 w/cab and air; Oliver (SOLD) 1650 w/R.G.; 1750 w/over and under, 1800 D W.F., Ford 4000 Tri. D
MASSEY FERGUSON - 1130D, Super 90D for $3400.00.
MF 165D w/heavy duty loader. MF 175D, sharp.
(Case) New 2090 Cab & Air, power shift $23,950; 1977 Case 1070 power shift w/cab enclosure real nice, 1975 Case 970 w/4 post, P.S., 1070 P.S., 930 C.K.
Case 1370 - P.S., Case 970 w/P.S. Oliver 1858 & 1850 D. w/over & under shift 1950T w/cab, 2050, 1855 w/20:8 tires, Ford 9600 diesel w/dual power and dual wheels, Ford 6600 w/cab, like new, 6000 Commander, D Ford 4000 MM S670 diesel.
COMBINES - JD 7700 Diesel w/Fire Damaged cab. N.I. Demo 768 WN 3 row head, N.I. 702 Uni tractors w/combines & 729 A and 729 Uni shellers w-3 & 4 row 30" and 40" heads. Used JD 13 to 15 ft. grain heads, JD 216 & 213 flex heads
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CORN PLANTERS - New & Used 7000 JD 4 row w/Inst., Used JD 7000 six row w/fert. fill, plateless, inst. w/minimum till & monitor, JD 1240 plateless w/Inst. XX disk openers in exc. cond. new White 5100 four row planter fully eq. Bearcat 950 Grinder. Mixer used twice, like new. Used Int. 1250 Gr. Mixer w/elect. scales - nice, N.H. 354 grinder mixer real nice $3500.00; Int. 56 Blower for $485.00. Hesston #10 stackhand (SOLD) wagon, N.I. 325 picker w/sheller, NI 324 w/super sheller, NH 36 Flail Chopper like new. New Brillion 22' and 25' fold cultimulchers. Call for old prices, Brillion 12 & 16 ft. packers.
JD #230 hydraulic fold wing disk; JD 220 hydraulic fold wing disk; White 252 wing disk.
New Case 8 row hydraulic fold cult. used N.I. 272 7 ft. cut/ditioner, JD #930 3 pt. R.H. JD #350 PTO drive 40 ft. elevator, used haybines, JD 1209, 1207, Hesston PT10, Case 550, NH 479, Grim Hay Tedder.
(New) NH 310 Baler damaged price $1400.00 JD 17 disk grain drill, JD 640 rake w/front wheel.
Used Int. 400-6 row cyclo w/Inst. and Monitor for $1800; White 6 row w/no til fert. fill, inst. and monitor, (3 offset Disks) J.D. #360 12 ft., Wilbeck 12' offset like new, Miller 14 ft. offset. JD Disks #210. Int. #480-22 ft. Wing Disk, Oliver 13 ft. heavy blade disk.
PLOWS - 2 Int. 6X spring reset, Int. 7X on land reset, 5X reset, John Deere #2600; 5X spring reset; JD #350-4X reset like new, JD 7X on land hydrl. reset, Ford 5x18 spring reset.
JD, Int. 5, 6, 7 trip New Bush Hog 12 ft. pull type chisel plow. JD #1600 - 16 pt. pull chisel plow, JD 12 ft. 3 pt. chisel plow; New White 14 ft. field cult., Kawanee 22 ft. Wing Disk Kawanee 15 ft. Roller Harrow.
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TRUCKS - 69 GMC cab over w/24 ft. Grove roll back body, 1980 Silverado Chevy diesel w/every option on, 1971 Ford - ¾ ton pickup, 1976 Chev C65 w/7,000 miles w/14 ft. flat, like new; 1977 Delta 44 ft. Combine trailer, (New) NH Direct cut head for 770. (New) Kill Bros. gravity bins. New Kill Bros. 8 & 10 ton running gears. Pick up heads for Int. 550, 650, 350, Fox pickup head, Direct cut head JD 3800 & 38. JD 3 row narrow silage head. (20) sets of dual wheels all sizes.
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Ford 10' Disc

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JD 46 Loader
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JD 506 Gyamor Mower $700
JD 1440 Planter w/80 units $4500
JD 78 Rear Blade 7' $410
JD 2420 SP Windrower $23,475
JD 534 Dozer Blade $2635
JD 3960 Harvester $9955
JD 1250 3B 16" Plow $1320
JD F950 12' Roller Harrow $3950
JD 567 Wheel Rake $1275
JD 445 Spreader $4000
JD 450 Spreader $5645
JD 680 Spreader $8200
JD 336 Baler w/Kicker $6750
JD 235 Disc Harrow 19'11" $11,800

USED EQUIPMENT
JD 3R 30" Corn Head $2895
JD 1R Corn head $650
Hesston PT10 Mower Conditioner $1695
NI 325 picker w/super sheller $5995
JD 344 3R 40" Corn Head $2495
Woods MC80 mower $895
Woods C114 mower $1495
JD 24T Baler w/kicker
JD 28 & 3800 Harvesters
JD 4B F125 Plow
JD 5B 1450 Plow
JD AW 9'10" Disk
JD 494 4R Plate Planter
IH 6R Air Planter w/dry fert.
IH #56 4R Planter
Farmhand Loader to fit JD 1010 & 2010
Brillion 9' Packer
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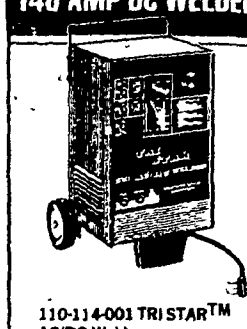

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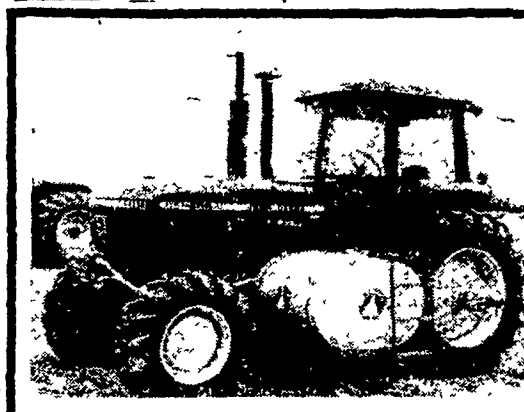

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Call or write for free 20 pg. brochure

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R.D. 1 Box 211 — Best time to call
Hollsopple, PA 15935 — 7 a.m. - 9 a.m.

ALL EQUIPMENT on lot DISCOUNTED - WE MUST REDUCE INVENTORY
Check deals below on selected new equipment:

	List Price	Sale Price
1086, 130 hours, radial tires, differential lock weights, cab and air	$42,000	$30,000
982, 106 hours, 20.8x38 tires, differential lock weights, cab and air	$36,900	$28,000
684 row crop, 62 h.p., 18.4x30 tires, 16.1 GPM pump, 1st rear weights	$19,311	$15,500

Other tractors in stock and discounted 3288, 284, 584 row crop, 784 row crop w/TA

BIGGS INC.
34 Buckley Ave.
Rising Sun, MD 21911
301-658-5531
Call Al or Wallace Biggs

NH 327 Manure Spreader
(2) NH 365 Tank Spreader
NH 518 Spreader
NH 1495 SP Haybine

SHOVER'S
Loysville, PA
717-789-3117

FIELD QUEEN
FORAGE HARVESTERS

NEW TILLAGE
12' Rhino Rock Flex Disc
18' Amco Hyd. Wing Rock-Flex Disc
13' 245 Bush Hog Offset 26" Disc
14' 1439 Bush Hog Disc
12' Glenco Soil Finisher

NEW EQUIPMENT
Hesston 30B Stacker
Allen 20' Hyd. Rakes

USED TRACTORS
White 2-70 w/Cab & Loader
Oliver 1850 D
JD 2510 Gas
Ferguson 20 w/Sauder loader

USED HARVESTERS

FIELD QUEEN SIDE DUMP, Cat Engine, 3 Row Head & Pickup

NH 1895 Forage Harvester, 4 Wheel Drive, 3 Row Auger Head and Pickup, 283 hours Excellent

NI 702 Diesel Uni
NH 890 3R & Pk. Up.
Gehl Recutter Blower
IH 715 Combine, 13' grain & 3 Row Corn Head
Fox 3310

USED SPREADERS
NI 224 10 Ton
NI 218 8 Ton
NI 1500 Gal. Vacuum
Badger 1500 Gal. Vacuum

USED EQUIPMENT
12' Brady Shredder
MF 7B 880 Reset Plow
Ditch Witch Trencher
20.8x38 Snap-on Duals
Hesston 4800 Big Square Baler
Fg. Wagons, J.D., AC, Grove, NH
Hesston Stackhand 10 & 30
Fox Blower
NI 728 4RN Head
Gehl 6' Rotary
JD 7' Rotary
White 5400 6R No-Till Pltr.
AC 6R Liquid Planter w/No-Till
AC 15' heavy duty Sgl. Fold Disc
JD 28 Disc Harrow
NI 323 1R Picker
Hesston PT10 Windrower
NH 479 Haybine
NI 272 Cut/ditioner
Hesston 320 SP Windrower
Hesston 1014 Hydro Swing Windrower
SS9 Glencoe Soil Saver
NI 710 Combine
Hawk Bilt 2155 Roll Top
Better-Bilt Hi-pressure Vac. Pump
Kools Recutter Blower

STOLTZFUS FARM SERVICE
Cochranville, Pa.
215-593-2407

FARM EQUIPMENT

New and Used Chain Saws For Sale - used saws as low as $29.95 large selection. WES STAUFFER, Ephrata, Pa. 717-738-4215.

FARM EQUIPMENT

Michigan 125 4 wheel drive loader w/cab $5500.
DENNIS M. MILLER EQUIPMENT
Rt. 22 Grantville, PA
717-838-1888 anytime
717-469-0937 daily

'76 JD sidehill combine, 1300 hrs.
Case 2390, 350 hrs.
'74 9000 cab-over truck tractor
'69 R600 Mack w/26' sitting dump trailer, both exc. cond.
New 320 NH baler w/70 thrower
'66 Ford tandem dump
400 bu. Moridge batch dryer, like new
'77 Ford F350 pickup
Self-unloading Grove wagon
Farmall H
Farmall 560
717-834-3597

USED EQUIPMENT

IHC 1066 w/CAB AND AIR, 1600 HRS. EXTRA CLEAN
JD 7700 DIESEL HYDRO COMBINE 1973

IH 966 Tractor
Oliver 1855 Tractor w/Cab
IHC 2400 Series B Utility Tractor w/570 hours
IHC 806 Diesel, no TA, fresh overhaul (SOLD) 3 pt. $5,850.
NI 767 Super Chopper with pickup
Ford 4000 Gas
AC D17 Series 4 Tractor
Farmall 706 with 291 gas engine, 2350 Mount-O-matic loader
Int. 1456 w/dual PTO's and 23.1x34 rear tires, new clutch and TA runs excellent
IHC 84 Hydro Tractor w/50 hours $11,750
Farmall 756 Gas Tractor, new motor
AC 200 Tractor w/2100 hrs. 1 owner

PARTS FOR SALE
JD 3010 Tractor
IHC 815 Diesel Combine
Massey 510 Gas Combine

RAYMOND B. LEAMAN
Willow Street RD 1, Ph: Lancaster 464-2778
Midway between Lancaster & Quarryville off Rt. 222 take Brenneman Road at Graybill Bros. Garage, Refton

---

FREE FINANCE ON NEW HOLLAND NEW AND USED HAY EQUIPMENT TILL JUNE 1, 1982, ON FORAGE EQUIPMENT TILL AUGUST 1982.

NH 256 Rake	$1145
Starline 810 Flail Spreader	$775
NH 518 Spreader w/hyd. endgate	$1875
NH 331 Spreader	$295
JD 44 Spreader	550
IHC 550 Fg. Harvester w/pickup & 2R Adj. Heads	$995
NH 717 Forage Harvester	
NH 880 N3, R2 Cornheads	
NH 479 Haybine	$2775
MF-NI Mower Conditioner	$1295
NH 269 Baler	$1185
NH 273 Baler	$1850
IHC 37 Baler & thrower	$950
NH 269 Baler w/thrower	$1650
JD "60" PTO Blower	$475

Call for prices on other equipment

SPECIAL PRICES ON NEW
NH 782, 892 Harvesters and Heads
NH L35, L325 Skid Loaders
NH 310 & 320 Balers
NH Mowers, & Rakes
NH 474, 489 Haybines
NH 14, 230, 234 Wagons
NH 513, 519, 800 Flat Bed Spreaders
3200 gal. Spreader with injector

ROY A. BRUBAKER
SALES ★ SERVICE
Phone: 717-626-7766 or 626-1859
700 Woodcrest Avenue, RD3, Lititz, PA

BALDWIN ELECTRIC MOTOR DIVISION, INC.
REPAIR & REWIND - ALL BRANDS
AC & DC MOTORS
Call 717-354-5566
Call 717-354-4651
BALDOR ELECTRIC MOTORS
Warehouse and Factory Service
½ hp. thru 10 hp. 1 ph.
½ hp. thru 100 hp 3 ph.
FARM DUTY MOTORS IN STOCK
P.O. Box 232, Honey Brook, PA 19344

CLIP THIS AD

WINTER SHOP SPECIAL

Winter Tractor Maintenance
10% DISCOUNT ON LABOR ON PRE-WINTER REPAIRS

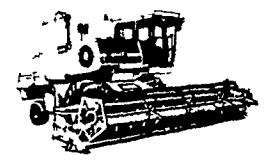
WINTER BALER CHECK UP OFFER
We will go over your baler from top to bottom to help insure a trouble-free spring season. On top of the reduced down time, you will receive a 10% discount if you sign up now...So don't delay.

TRACTOR PAINT SPECIAL
Let us make your tractor look like a new one at a 15% Savings.
Call for an estimate
Program effective
11/21/81 thru 12/15/81

AG-Industrial Equip. Co.
Rising Sun, MD.
301-658-5568 301-398-6132
215-869-3542
(This Ad MUST Be Presented To Get Above Discounts)

CLIP THIS AD

SEASON'S GREETINGS



MF Massey Ferguson

15% Price Rollback to Dec. 31
on all New MF agr. w/13.9% 2 year financing or waiver of finance charges. Eligible used equipment 13.9% 2 year financing or waiver of finance charges.

NEW EQUIPMENT

- MF 245 diesel, 8 speed
- MF 255 diesel, multipower
- MF 265 diesel, multipower
- MF 154-4 diesel
- MF 540 diesel combine
- MF 850 & 860 diesel combines
- MF 1143, 1144, 1163 corn heads
- MF 4880 diesel tractor
- MF 13' and 15' tables and Ulf reels.
- MF 43 and 880 plows
- MF 129 chisel plows
- MF 226 and 227 snow blades

USED EQUIPMENT

- MF 760 combine
- 2 MF 135 tractors
- Bobcat Model 700 Melrose skid loader
- JD 4020 Tractor
- Allis Chalmers WD 45 tractor
- Farmall Super H Tractor
- Brillion 12' cultipacker
- (2) 250 bu. gravity bins
- MF 880 5 btm. 18" plow
- Case 1160 combine
- NH 285 baler
- Ford 520 baler
- MF 510 diesel combine

We Service All Makes Of Equipment
Large Inventory of New & Used Equipment

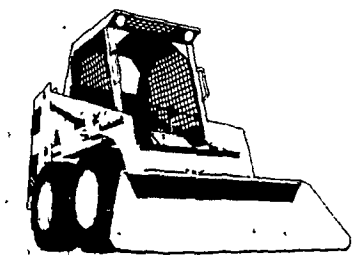
ABRACZINSKAS Farm Equipment, Inc.
RD 1, Catawissa, PA.
717-356-2323
(south on Rt. 42)

FARM EQUIPMENT

FARM EQUIPMENT

RENT-A-BOBCAT and DO YOUR OWN THINGS!

You'll get tons of work out of a rental BOBCAT . . . like moving dirt or sand, digging a trench, transplanting a tree or wrecking a building. Rental available by the hour, day, week or month. Call us today



SWOPE & BASHORE, INC.
RD #1, Myerstown, Pa.
(Frystown)
Phone 717-933-4138

bobcat CLARK

See Us About IH Purchasing Programs.

NEW EQUIPMENT
Call for Prices

Gehl 360 skid steer loader
Gehl 1600 round baler
IH 425 baler w/thrower
IH 1190 mower-conditioner
IH 200 2 row, 3 pt. cultivator

USED EQ. SPECIALS

Ford 740 tricycle w/Johnson loader. Reg. $1975 Special $1650
IH 990 mower-conditioner Reg. $2250 Special $1850
AC 303 baler w/thrower Reg. $1550 Special $1295
IH 715 combine Reg. $17,500 Special $15,900

USED EQUIPMENT:

766 Tractor	$12,400
1066 tractor	$13,800
MF 65 diesel w/industrial loader	$4750
IH 550, 5 x 16 plow	$1250
IH 4x14 trail plow	$375
JD 12' Mtd. Vibra Shank harrow	$1550
IH 400 Cyclo 4 row planter	$3450
IH 400 Cyclo 4-row planter	$2975
Pincor alternator with trailer	$1495
Fox blower	$750
468 4-row cultivator	$850
2 A-Hay Crusher	$95
NH 770 forage harvester w/2 row narrow row hd. & pickup hd.	$3500
#10 single disc drill	$2300
Ontario 12x8 hoe drill on steel	$435
Ontario (13x8) hoe drill	$475
Arts-Way grinder-mixer	$1375
IH 1150 grinder-mixer	$2350
Bale wagon	$795

INCH EQUIPMENT CO.
Dalmatia 717-758-3021
717-758-6491
35 miles North of Harrisburg, PA on Rt. 147
INTERNATIONAL AGRICULTURAL EQUIPMENT
• U.P.S. Service Available

FARM EQUIPMENT

JOHN DEERE

THIS MONTH'S NEW MACHINE SPECIALS

JOHN DEERE 4040 TRACTOR
Quad Range w/Cab
List $35,238
SPECIAL $28,900

JOHN DEERE 950 12' Roller Harrow
List $5,025
SPECIAL $4600

450 Spreader
240 Loader
260 Loader
4B 2700 Plow
22A Sub Soiler
51 Post Driver

USED TRACTORS

JD 2240 w/146 Loader $12,000
JD 2020 w/47 Loader $8,500
IHC 574 w/2000 Series Loader $8,000

Finance waiver available on all "After Season" Equipment

SMITH IMPLEMENTS, INC.
Mercersburg, Pa.
17236
717-328-2244

FARM EQUIPMENT

CFH

JOHN DEERE

NEW EQUIPMENT IN STOCK

JD 850 22 h.p.
JD 2440
JD 4240 Fenders only
JD 4240 Cab, Quad
JD 25 Combine Header Transport
JD 6620 Combine
(2) JD 643 Corn Head
JD 653A Bean Head
(2) 7000 6R Conv. Pltr.
(6) JD 7000 6R Reg. Pltr.
JD 7000 12R Planter Ft. Fold
JD 7000 4RW Planter
JD 7000 4R Consv.
JD 9x32 Imp. Carrier
JD 3960 Fg. Harvester
JD 510 Round Baler
JD 347 Baler
JD 1209 Mower Cond.
JD 215 11'5" Disc
JD 215 12'10" Disc
JD 235 17'1" Disc
JD 235 19'11" Disc
JD 235 21'4" Disc
JD 331 24'2" Disc
JD 2600 5x16 Plow
JD F45 2x14 Plow
JD 75 Loader
JD 415 Rotary Hoe
3-JD 606 Rotary Cutters
JD 609 Rotary Cutter
JD 1008 Rotary Cutter
JD 65, 95, 115, Blades
JD 145, 146, 168, 260 Loaders
JD 272 Rotary Mower
Woods 214 Mower
Woods Center Mtd. Mower for JD 650
Woods RM59 - 5' 3 pt. Mower
Brillion 25' folding packer
(2) Brillion 6R Cultivators
(2) JD 1065 Wagons
JD 1075 Wagon
JD 716 Fg. Wagon
JD 90 Skid Steer Loader

Notice
We will be closed for the Holidays
Dec. 24th thru Jan. 2nd.

CFH, INC.
East Main Street
Cecilton, Md. 21913
(301) 275-2195
648-5416 755-6608
Evenings & Weekends
Call Gary (301) 885-2248

FARM EQUIPMENT

FARM EQUIPMENT

SPECIAL **HONDA ENGINES**

3.5 H.P. $210.00
5 H.P. $240.00

Add 5.00 for UPS shipping
(Pa. residents add 6% sales tax unless for farm use)

Dealer prices on request

FISHER ENGINE SERVICE
3141 Old Philadelphia Pike
BIRD-IN-HAND, PA 17505

RENTAL

SPECIALIZING IN RENTAL OF

SKID LOADERS & BACKHOES

STOLTZFUS MFG. CO.
R.D. #1 Box 700
Honey Brook, Pa. 19344
Phone - 215-273-3376
or 215-273-3050

MF Massey Ferguson

15% PRICE ROLLBACK IN DECEMBER ON NEW & USED EQUIPMENT
Also Waiver or 13.9 Percent APR Financing

TRACTORS & EQUIPMENT

IH 154 Cub Low-Boy Tractor w/Mower
IH 340 Farmall Tractor
MF 3165 Tractor w/Loader & Cab
MF 203D Tractor w/Loader
MF 1085 Tractor
MF 205 Diesel Tractor w/Loader
MF 50 Tractor w/Loader
MF 40 Dsl. Tractor and Loader
MF 35 Tractor
Ford 641 Tractor w/Loader & Bucket
Farmall Super H Tractor
JD MT Tractor
Ford 8N Tractor w/loader
NH 892 Fg. Harvester
Fox 1000 Forage Harvester
NH 451 Mowers
(3) NH 36 Crop Chopper
NH 270 Baler w/thrower
NH 269 Baler w/thrower
NH 1010 Bale Wagon
MH 35 Combine
Brillion 12' field cultivator
NH 510 Manure Spreader
NI 213 Manure Spreader
AC Blower
AC 516 Plow

NEW M.F. EQUIPMENT

MF 275 Tractor
MF 245 Tractor
MF 265 Tractor
MF 230 Diesel Tractor
MF 220 Tractor
MF 210 Dsl. Tractor
(2) MF 205 Diesel Tractor
MF 50C w/Loader
MF 50C w/Loader
MF 50C w/Loader
MF 40B w/Cab
MF 40B w/Cab
MF 30B w/Cab
MF 30B Tractor Cab
MF 20C Tractor w/Loader
MF 124 Baler
MF 34A Loader
MF 34A Loader
MF 32 A Loader
MF 246 Loader
(2) MF 216 Loader
MF 300A Loader
MF 640 Corn Planter
MF #43 2B Plow
MF 820 Disc Harrow
MF 520 Disc Harrow 12'
MF 520 Disc Harrow 14'
(2) MF 320 Disc Harrows
MF 226 Scraper Blade
MF 227 Scraper Blade
MF 218 Rotary Cutter

S.G. LEWIS & SON, INC.
R.D. 2 Box 66 West Grove, PA
215-869-2214

FARM EQUIPMENT

FARM EQUIPMENT

VAN DALE

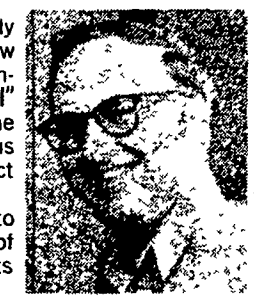
- **Van Dale Products**
  - Silo Unloaders 10' - 30' New & Rebuilt
  - Bunk Feeders - Belt, Auger and Shaker
  - Conveyors - Auger & Single Chain
- **T.M.R. Van Dale Mixer-Feeders - 4 Auger**
  - Truck Mounts
  - Trailer Mounts
  - Stationary Units
  - 40 Cows to 400 Cows
- **Liquid Manure Spreaders**
  - 1500 Gal. to 4500 Gal.
  - Soil Injectors
- **Liquid Manure Pumps**
  - Agitator-Filler
  - Centrifugal
  - Lagoon
- **Uebler Electric Forage & Grain Carts**
- **Uebler TMR Forage Carts**
- **Red Top Stainless Steel Trough Cattle Waterers**
- **Lancaster Stave Silos - Stave or Metal Chutes**
- **Sollenberger Poured Concrete Silos Top or Bottom Unloading**
- **Double Chain Wood Conveyors w/Slip Clutch & ¾" Bottom**
- **Taper Board Feeders & Belt Feeders**
- **Circle Feed Supplement Bins**
- **Hedlund-Vaughan Chopper Pumps**
- **Nesseth Liquid Manure Equipment**
- **Leasing Available**

Sales & Service

K & S INC.
RD 1 Quarryville, PA 17566
PH: 717-284-3111

LET'S MAKE A DEAL

Hydra-Mac 20C III - diesel, skid steer loader, new



Marv Brown formerly from Ephrata, PA, now general manager, announces a **"Let's make a deal"** clearance sale. on the equipment listed in this ad. Prices will be in effect through 12-31-81.
Marv says "We plan to clear this inventory out of our stock **NOW** so lets make a deal."

Hyrodstatic all gear drive, load capacity 4000 lbs., 66" manure fork, 68" material bucket	$15,280
Hanson 3 pt. snowblower, 7' demonstrator	1,699
IH 80 snowblower	1,865
Used McKee 8' front mounted snowblower	$1,200

USED EQUIPMENT

IH 656 row crop loader	$6,500
IH 544 hydro utility 3 pt. hitch	4,900
JD loader for 3010 tractor	225
NH 479 mower conditioner	2,650
IH 990 9' mower conditioner.	1,100
IH 350 springtooth harrow	500
IH #55 14 tooth hiclear chisel plow	1,300
Ford 2 row 3 pt. hitch planter	175
IH 455 4 row planter	350
IH #37 baler w/thrower	800
JD 24T baler w/thrower	1,500

NEW ALLIED EQUIPMENT

Amco 10'6" heavy duty disc harrow	$4175
Glencoe 7 shank soil saver	$4750
Amco 18' heavy duty rock flex disc harrow	$10,700
Glencoe 12'9" soil finisher	$6225
Cagle 7' box scraper	$375
Dunham Lehr #22 loader w/bucket	$2085
Vicon wheel rake	$990
Brillion 12' cultipacker	$1275

NEW IH EQUIPMENT

720 harvester w/grass head	$6895
830 harvester w/grass head & 3 row crop unit	$1195
530 spreader 145 bu. capacity	$2250
595 spreader tandem axle 325 bu. capacity	$6595
730 4 furrow automatic adjustable width plow	$6650
1250 grinder mixer	$6225
56 blower	$1825
784 diesel tractor w/T A	$15,750

Service Special
All work performed in our service center through January. 10% discount on IH parts used.

We ship parts by UPS daily

C & W EQUIPMENT, INC.
260 York Rd.
Carlisle, PA 17013
717-243-4419

FARM EQUIPMENT

For Sale - MF 265 diesel, high clearance, with new rubber. 717-733-6717

For Sale - 207 Hawkbilt tank spreader, like new $2650. JD 9' Haybine $825. Northern Baltimore Co., Md. 301-374-6024

FARM EQUIPMENT

Cagle

UNICORN FARM SERVICE
JAMES E. LANDIS

PATZ SALES & SERVICE
TERRE HILL SILOS
QUARRYVILLE, R.D.#2, 17566
CALL 786-4158

MANUFACTURERS OF FARM MATERIAL HANDLING EQUIPMENT

Gutter Cleaners
Manure Stackers
Manure Pumps
Manure Spreaders
Liquid-vators
Silo Unloaders
Cattle Feeders
Material Movers
Conveyors

New Equipment Sale

Diesel Tractors	List	Sale
2440	$21,183.00	15,900.00
4040	31,414.00	23,500.00
Plows		
2600 - 5 BTM Spring Reest	9,765 00	7,295 00
Disk		
225 - 12 ft. offset	6,091.00	4,650 00
115 - 10 ft.	4,533.00	3,850 00
Chisel Plow		
1610 - 11 ft. Pull Type	4,246.00	3,295.00
Mower Conditioner		
1209	8,470.00	6,495 00
1320	11,027.00	9,295 00
Spreaders		
34	3,505.00	2,895.00
445 Flail	5,255.00	3,725.00
465 Flail	5,910.00	4,295 00
Loaders		
143	2,266.00	1,595.00
158	4,194.00	3,295.00
260	5,057.00	4,095 00
Rear Blades		
45 - 6 ft.	430.00	350.00
65 - 8 ft.	714.00	625.00
78 - 8 ft.	544.00	450.00
88 - 8 ft.	869.00	775.00
115 - 8 ft.	1377.00	1050 00
115 - 9 ft.	1601.00	1225.00
155 - 9 ft.	2520.00	1825.00
Rotary Cutters		
609 pull Type	2304.00	1995.00
709 - 3 pt.	2469.00	1975.00
Wagon		
1075 10 ton	2509.00	1450.00
Sprayer		
550	4,462.00	3,195.00
Power Till Seeder		
1550 Demo	10,996 00	6,595 00
Forage Equipment		
3 row - row crop head	6,587.00	4,200.00
Bulldozer Blade		
534 - 9 ft.	3,149.00	2,395.00
Post Driver		
51	953.00	725.00

1981 Tire Inventory Sale

	Sale
4 - 13.6x38 - 6 ply Traction Torque	194.40
2 - 16.9x30 - 6 ply Goodrich	240.00
3 - 15.5x38 - 8 ply Power Torque	435 26
4 - 15.5x38 - 6 ply Traction Torque	273.18
1 - 18.4x34 - 6 ply Power Torque	499.36
1 - 18.4x34 - 8 ply Power Torque	499.36
2 - 14.9x26 - 6 ply Power Torque	307.30
1 - 13.6x38 - 6 ply Power Torque	194 40
2 - 11.2x28 - 4 ply Traction Torque	119.22
1 - 12.4x24 - 4 ply Traction Torque	119 87
1 - 14.9x28 - 6 ply Firestone A.T. Field & Road	150.00
2 - 16 9x28 - 6 ply Power Torque	259 31
2 - 18.4x30 - 6 ply Goodrich	187.50
2 - 12.4x38 - 6 ply Traction Torque	234.77
1 - 23.1x26 - 10 ply Power Torque	820.56
1 - 13.9x36 - 4 ply Traction Torque	156.66
2 - 18.4x38 - 6 ply Power Torque	549 76
2 - 20.8x38 - 10 ply Firestone A.T.	900.00

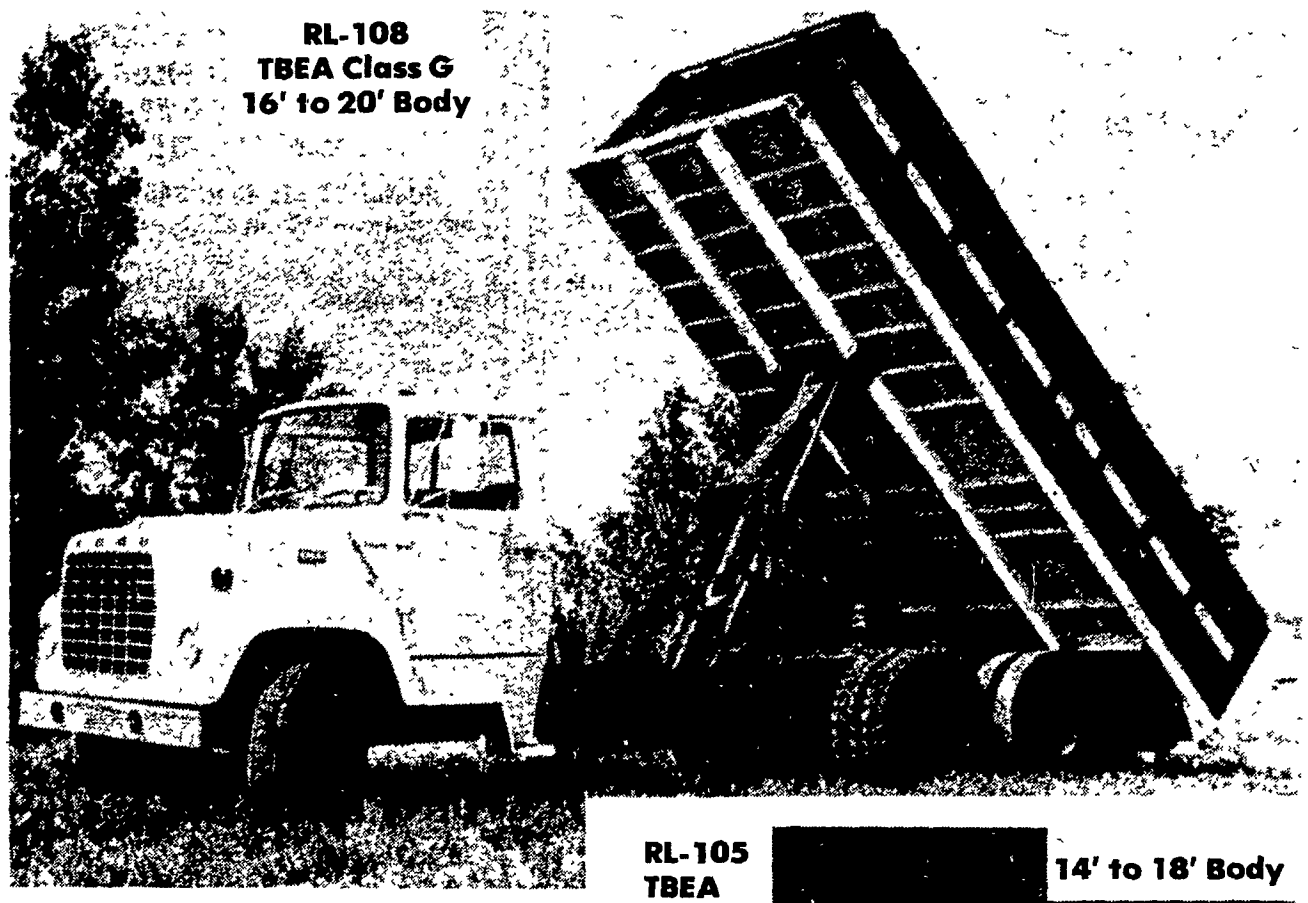
Waiver of Finance available on all New JD tractors 'till 6-1-82
Call for Details

PAGE VISA

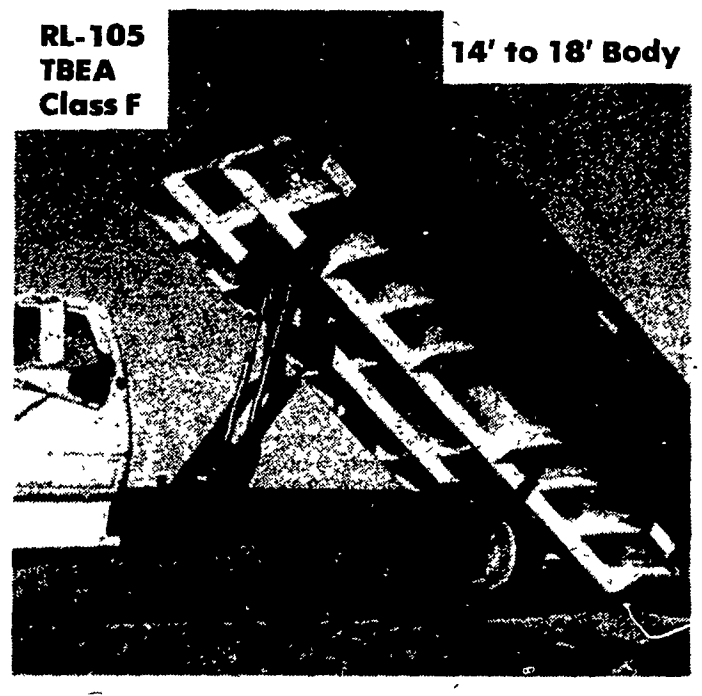
NEUHAUS'ES INC.
John Deere Sales & Service
RD2, York, PA 17403
Phone - 717-428-1953

HARSH HOISTS

WHY BUY A COPY...
WHEN YOU CAN HAVE THE ORIGINAL?



- Thirty years as the leader in hoist design and research makes HARSH® the name to be trusted in hydraulic hoists.
- Unique telescopic scissor hoist.
- Models available to fit 12-26 ft. bodies.
- The one-piece Rigid-Lift® hoist weighs less than the competition's hoist and "add-on" unit.
- HARSH's® one-piece unit is quickly installed.
- And best of all, the price of an original HARSH Rigid-Lift® hoist is competitive with all the copies!

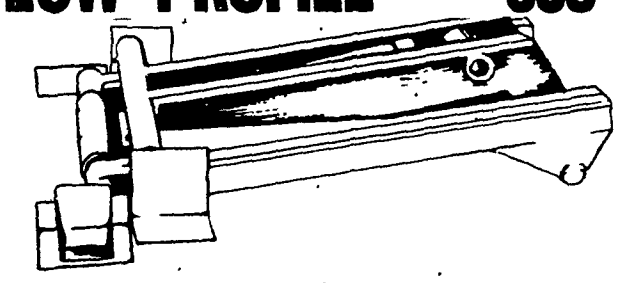


NOTICE!

Price Increase Effective January 1982.

All Orders Placed Before End of Year will Be Honored At OLD PRICE For 1982 Installation

HARSH HOIST
LOW PROFILE — 090

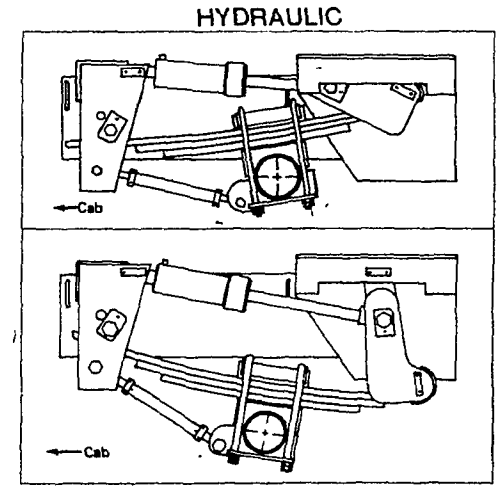


- **Now a Hoist for 8' to 13'6" Body Lengths — TBEA Class C**
- **6" Mounting Height — No Notching of Box Cross Members on 6" Longitudinal**
- Available with Electric or P.T.O. Driven Pump
- Double Acting Cylinder Power Up / Power Down
- High Polish Hard Chrome Cylinder for Long Life

WE NOW HAVE IN STOCK HARSH TRUCK SUSPENSIONS

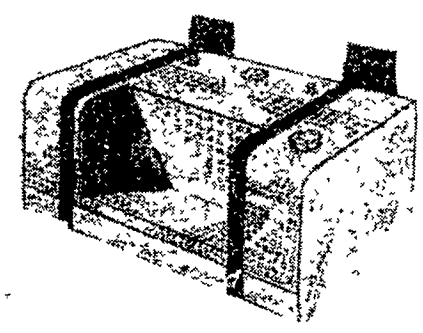
"TRACTION-LIFT⊙" HEAVY DUTY PUSHER OR TAG HYDRAULIC

AXLE IN RAISED POSITION

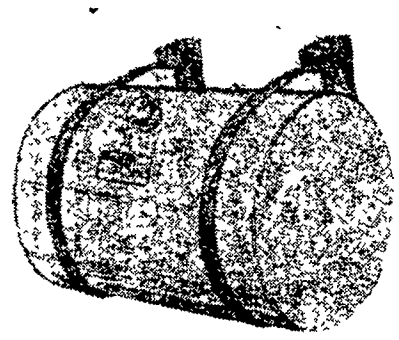


AXLE IN DOWN POSITION

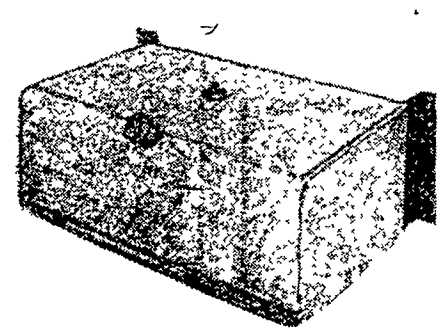
HARSH FUEL TANKS



50 GAL. STEP TANK — **$380.00 w/Brackets**

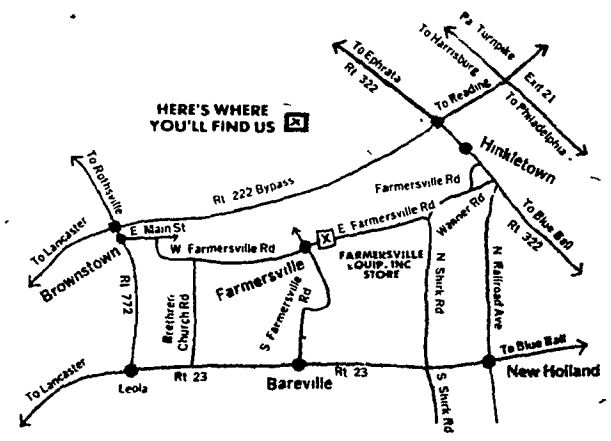


CENTER FILL MODEL
30 gal. - $223.00
40 gal. - $253.00
50 gal. - $273.00
60 Gal. - $293.00



SCHOOL BUS TANK
30 gal. - $208.00
40 gal. - $233.00
50 gal. - $265.00
60 gal. - $290.00

Single Fuel Line Kit for above tanks: $36.00
Installation Charge: $25.00 per tank



COMPLETE LINE OF CHELSEA POWER TAKE-OFFS IN STOCK

FARMERSVILLE EQUIPMENT INC.

RD 4, Ephrata, PA. **717-354-4271**

HOURS: Mon., Tues., Wed. & Fri. 7:30 AM to 5:30 PM; Thurs. to 8 PM; Sat. till 3 PM

SAME Leyland Tractors
AVCO NEW IDEA

FOR SALE

(2) 20.8x38 8 ply Pierlli radial tires. New $990 each.
Farmall M, fair condition, $950
Brillion 11' packer exc. cond., $890
Badger model 205-205 bu. spreader w/2nd beater, in new cond. $2785
NI 214-217 reader w/hyd (SOLD), Graetz chain, 2 mo. old, exc. condition, $3085
NI mod. 200 PTO spreader, nice cond. $765
Taylorway 6'4" heavy duty offset disc harrow, 24" blades, new condition $1600
Danuser model BMBH front mounted post driver, exc. cond. $925

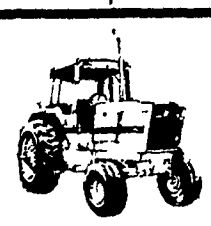
HEISEY FARM EQUIPMENT, INC.
RD 1 Jonestown, PA
717-865-4526

JOHN DEERE

JD 4030 Tractor
JD 4020 Tractor P.S. W.F.
JD 2640 Tractor w/loader
JD 2520 Tractor
JD 950 Tractor
Farmall 200 Tractor w/ftr. Blade & 2B Plow
IHC 856 Tractor
IHC 856 Tractor
JD 1207 Mower Conditioner
JD 1209 Mower Conditioner
JD 485 Mower Conditioner
NI 2R Pull Type Picker
NI Corn Picker w/sheller
JD 1240 4R Plateless Corn Planter
JD 1240 Corn Planter
JD 1240 Corn Planter
AC 4R No-Til Planter, like new
JD RWA Disc
JD BWA Disc
Athens Disc
JD B Plane 15 Disc Grain Drill
JD 3800 Chopper w/2 row corn hd
JD 34 Chopper w/corn head
JD 6600 Combine, hyd. drive w/platform
JD 6600 Combine w/15' Platform & 443 Corn Head
JD 6600 Combine w/15' Platform & 444 Corn Head
JD 105 Combine w/platform and corn head
Woods C114 Rotary Mower
Woods 120 Offset Rotary Mower
NH 68 Baler w/ejector
JD 336 Baler w/ejector
JD 214 Baler w/thrower
JD 24T Baler w/ejector
JD 24T Baler w/ejector
NI 279 Cut/ditioner
JD 2800 6B Plow
JD 145 6B Plow
JD 325 3B Plow
JD 1450 5B Plow
JD 950 12' Roller Harrow
JD 1550 Power Till Seeder

ENFIELD EQUIPMENT INC.
Whiteford, MD 21160
Ph: 301-452-5252

FARM EQUIPMENT



NEW TRACTORS
IH 284D
IH 284D 4WD
IH 484
IH 684 w/loader
IH 884
IH 384
IH 274
IH 584
IH 784

NEW CULTIVATORS
2 IH 183 4 row Vibra tines

NEW HAY EQUIPMENT
IH 445 W balers
IH #15 bale throwers
IH 1190 9' mower conditioners
IH 1300 7' 3 pt. hitch mower
IH 35 rakes

NEW DISC HARROWS
IH 122 5'6"
IH 122 6'9"
IH 475 18'7"
IH 501

IH Uptime service
certified service 1980 1981

W^M HOBENSACK'S SONS
1060 GREELEY AVE.
IVYLAND, BUCKS CO., PA. 18974
1-215-675-1610 1-215-343-2101

bobcat
HESSTON FARM EQUIPMENT
FIELD QUEEN FORAGE HARVESTERS
ALLIS-CHALMERS
AVCO NEW IDEA
KUBOTA

AIRVILLE EQ. INC.
PO Box 37 (Rt. 74)
Airville, PA 17302
717-862-3358 or 862-3967

USED MACHINERY
AC WD tractor
AC 185 w/loader, reconditioned
656 IH w/loader
885 diesel David Brown orchard tractor
4030 JD w/cab
2- Hydromac Skid Steer Loader
AC C combine (SOLD) w/4 row corn head & 13' grain head
Gleaner L combine w/15' grain hd., 4 row narrow corn hd.
83 Mass- combine (SOLD) w/2 heads
IH 440 baler w/thrower
Hesston 500 SP mower cond.
NI 272 cutditioner
IH 990 mower cond.
NH 1010 bale wagon
White 5 btm. hyd. reset plow
Oliver 4 btm. hyd. reset plow
MF 3 btm. hyd. reset plow
NH 717 forage harvester on 1 row hd.
IH 555 forage harvester w/2 hds.
237 JD mounted pickers
702 power unit and chopper and choice of heads
NI 708 power unit
737 Husking unit
731 4 row head
717 combine
713 platform
744 4 row head
NH 718 with new 1 row head or 2 row and pickup
AC 6' pull type rotary mower
JD 36' elevator w/motor
Taylorway 8' disc

NEW MACHINERY
Hesston
7150, 7160 (Attaching heads for all)
16' forage wagon
Round Balers: 5540 & 5580
Bale movers
4600 baler w/thrower
Mower Conditioners: 1071, 1091
New 7600 Field Queen harvester, & all attaching heads
Allis Chalmers
5040
5045
5050 w/4 wh. drive
5050 orchard tractors
175 (SOLD)
6080
6080
6060 4 wh. drive
Discs: 2300, 2500 & 2600 series
New M2 corn plus combine
FKS Combine
Kubota
B 6100 w/4 wh. drive
B 6100 HST 4 wh. drive
B 6100 HST 2 wh. drive
B 7100 HST 2 wh. drive
L 345 4 wh. drive + loaders, mowers, accessories
Bobcat
530
743
310
New Idea
Uni System Plats.
Combine
Chopper
1 row pickers
2 row pickers
Elevators
Allied
GT grain dryer
Moore no till drill

FARM EQUIPMENT

NEW EQUIPMENT

IH 986 Tractor
#10 flail chopper $3700
Woods rotary cutter, 6' $900
Winco 25 KW generator w/trailer $1850
Bush Hog 5' chisel plow $800

USED EQUIPMENT
Ferguson tractor
Farmall A tractor
Farmall Super H, $900
Farmall 460 gas, w/2 MH corn picker
AC gleaner combine model CII 14' grain & 4 row corn head $7500
IH 674 diesel $8500
IH 574 diesel utility, low hrs. $7300
IH 544 gas hydro, new engine $5800
NH 469 haybine $2400
IH 400 cyclo planter $3000
Oliver 5F 16" plow $1150
Oliver trail plow, 3f trip, $300
Sheller for NI picker $600
IH 234 corn picker
JD Model 18 corn picker
72" Woods under mount mower $500
2- IH 990 mower conditioner, $1975
IH 234 sheller attachment $1325
Kelly loader $400
2 IH 550 forage harvester hay & corn head $2700
IH 540 furrow plow, $1100
Brillion cultipacker, like new $950
2000 loader

DOMBACH EQUIPMENT
McAlisterville, Pa. 717-463-2191

JOHN DEERE
Nothing runs like a Deere

Hot Special On NEW EQUIPMENT

	List	SALE
JD 1207 mower conditioner	$6900	$4,500
JD 410 round baler	$8,300	$6,500
JD 850 tractor w dual outlets (ready to put a log splitter or bucket on)	7,400	5,800
JD 25A flail mower	1,875	1,400

JUST CAME IN
Nice JD 2640 w/canopy
Nice Case 995 w/cab
JD 4030 4 post w/enclosure
IHC 1486 w/duals A-1 Cond.

THIS WEEK'S SPECIAL ON USED HAY EQUIPMENT
Free Financing Till May 1, 1982

	List	SALE
JD 336 w #30 ejector	$4,600	$4,200
JD 24T w #2 ejector	1,600	1,195
JD 14T baler w #2 ejector	1,495	695
JD 14T baler w #1 ejector	495	395
JD 14T baler w #1 ejector	685	450
NH 68 w 53A thrower	1,100	795

MOWER CONDITIONERS

JD 1209	2,800	2,195
JD 1209	4,200	3,600
NH 1469 haybind. SP	4,000	2,800
Owatonna 700 SP	3,500	2,400
NH 469	1,875	1,200
NH 469	2,100	1,500
Case 7'	1,995	1,495
IHC 760 offset disc. like new cond. 12 ft.	3,500	3,200

NO TRADE ON SALE PRICES

JOHN DEERE
AUKER-ENA EQUIPMENT, INC.
Oakland Mills, PA 17067
717-463-3511 436-2235

MF Massey Ferguson
FIELD QUEEN FORAGE HARVESTERS

GOOD USED EQUIPMENT

Tractors
AC D17 Diesel
AC D17 Gas
MF 135 Gas
MF 265 low hours
(2) MF 1080 Cab
(2) MF 1100 Cab
MF 85 gas
Oliver 660 gas
Farmall 450 diesel

Forage Harvesters
Gehl 600 w/grinder
JD 35 1-row
Hesston 2000
Fox 2000

Combines
JD 45 cab, 2 row
MF 300, cab, 1976
JD 3300 diesel cab
Jd 25

Mower Conditioners
Hesston 310 SP
1 Hesston PT10
Hesston 1014 10'
Hesston 1070

Miscellaneous
Shaver 12" digger
Shaver post driver

Hay Harvesting
MF 3 pt. rake
MF 12 w/thrower
MF 37 rake
MF 124 baler w/thrower

Harvesting
NI 324 w/329 sheller
NI 10 picker

Longenecker's, Inc.
At Clappertown Williamsburg, PA
814-793-3731

C.J. WONSIDLER BROS.
ALLIS-CHALMERS
AGRICULTURAL EQUIPMENT

A very MERRY CHRISTMAS from everyone at C.J. Wonsidler Bros.

Trumbauersville to Finland Rd., Quakertown, PA
Call (215) 536-1935, 536-7523
OR Rts. 309 & 100, New Tripoli, PA (215) 767-7611

TRACTORS
JD 3010 D w/loader
(2) JD 60
White 250 D, like new!
Oliver 1850 D
Oliver 500 D
Oliver 55 D
MF 1100 D
MF 1080 D
MF 180 D w/loader
MF 180 D
MF 50
Farmall 560 D
Farmall 400
Farmall 460 D
Farmall M
Farmall H
Ferguson 30 w/loader
Ford 3000 G
Ford 800
Ford 601
Ford 9N
Case 630 w/loader
(3) Case 300
Case DV
Satoh Elk 550 w/low hrs.
AC 7040 D w/cab
AC 7020 PS D w/cab
AC 200 D
AC 190XT D w/cab
AC D19
AC D17 D
AC WD45 G
AC WD G

COMBINES
Gleaner MKS w/13' grain & 630 corn heads
Gleaner FKS w/grain & corn heads
Gleaner AII w/13' grain & 2-row corn heads
Gleaner CII w/13' grain & 438 corn heads
JD 55 Corn Special w/cab, 12' grain & 330 corn heads
JD 55 w/grain & corn heads
JD 40 w/grain & corn heads
JD 45 w/grain & corn heads
MF 82 w/grain & corn heads
NH 975 w/grain & corn heads
IH 203 w/grain & corn heads
NI Uni-System 704 w/717 combine, 4-row corn head
Behlen 400 BU. Grain Dryer

AVCO NEW IDEA

MANURE SPREADERS
(2) NI 213 Flail, 176 BU.
(2) NI 213 Single Beater, 176 BU.
(2) NI 213 Three Beater, 176 BU.
NI 218 Single Beater, 318 BU.
NI 218 Single Beater, 318 BU., EX. COND.
NH 516 Single Beater w/ endgate, EXCEL.
NH 365 Tank Spreader w/hyd. lid, 6 TON
Hawk Bilt 255 Tank Spreader, 7 TON

SPECIAL SALE

Meyer's 7', 8', & 9' snowblades for farm tractors in stock and ready to go!!! CALL TODAY!!!

SPERRY NEW HOLLAND

Lobachsville, Oley, PA (215) 987-6221, 987-6257

FARM EQUIPMENT

FARM EQUIPMENT

NOTICE HORSE FARMERS

We have on stock a semi and liquid manure spreader that does a good job of spreading at a very low cost

530 gal. $1495

650 gal. $1560

guaranteed 1 yr.

This is an exceptionally easy pulling spreader, Try mine on trial.

2% Cash Discount

Elam M. Stoltzfus

Box 210 RD 1, Amish Rd.
Kinzers, PA 17535

JOHN DEERE *Nothing runs like a Deere*

THIS WEEK'S SPECIALS

MF 1105, 720 HRS. w/CAB
NEW JD 4040 TRACTOR
NEW JD 4040 THRU 8640 TRACTORS NO FINANCE CHARGE TILL JUNE 1, 1982

USED TRACTORS
MF 1105 w/Cab
IH 656 Hydro.
Case 885, 500 hrs.
JD 2840 w/Loader
JD 2840

USED CORNPLANTERS
JD 7000 No-Till
JD 7000 Conservation
JD 1240
JD 1260
JD 494A

USED HAY & FORAGE EQUIPMENT
NH 1895 Sp Fg. Harvester w/3 heads
JD 35 Fg. Harvester w/N2 head
JD 3800 Forage Harvester w/2RN
Fox 2200 Fg. Harv. w/2 heads
NH 3RN Corn Head
JD 244 Snapper Head for Fg. Harvester
NI Side Rake
NH 1010 Auto Bale Wagon
NH 273, 271 & 269 Balers w/Throwers
OMC 9' Mower Cond.
JD 1207 Mower Cond.
JD Hay Crimper
NH 1469 SP Haybine, w/Ford Water Cooled engine
NH 495 Haybine
NH 469 Haybines
Hesston 1010 Swing Tongue.
JD 216 Fg. Wagon

USED TILLAGE
9 Shank Soil Saver

MISCELLANEOUS
15 HP 3 phase elec. Motor
JD 34 Spreader w/ Hydraulic end-gate
Davis Scat Back Loader

JUST ARRIVED
JD 7000 4R & 6R Conservation Corn Planters

NEW TRACTORS
JD 4240 SG, Power Shift
JD 4040 4 Post, QR
JD 2440
JD 2240

NEW HAY & FORAGE EQUIPMENT
JD 506 Gyamor Mower
JD 1209 Mower Conditioner
NH 718 Fg. Harvester
JD 3940 & 3960 Fg. Harvester
JD 337 Balers
NH 315 & 320 Balers
Bale King Bale Boxes
JD 2420 Sp. 12' Dsl. Mower Conditioner
NH 1495 SP Haybine
NH 489 & 495 Haybines
JD 567 Wheel Rake

NEW TILLAGE
JD 950 Roller Harrow
NH D100 Disc Harrow
JD 2600 & 2700 4B Plows
JD 1600 Chisel Plow
JD 115 & 215 Disc Harrows
JD 336 Lever Harrows

NEW SKID STEER LOADERS
Bobcat 642 & 743.

NEW SPREADERS
NH 329, 519, & 791
JD 392 Spin
JD 450 Hydro Push
Martin V Type & Scavenger

NEW DRILLS
JD 8250 18x7
JD 8200 14x7

NEW MISCELLANEOUS
JD 335 Skid Sprayer
Most Model JD Loaders & Blades
EZ-Flo Gravity Boxes

CLEAN ENERGY WASTE OIL BURNER.
Now You Can Burn Your Waste Oil for Heating.
Call for details.

No Finance Charge On New & Used JD Tractors Till March 1, 1982

No Finance Charge On NH - Forage Till March 1, NH Hay Tools Till June 1 JD Hay & Fg. Equip. Till May 1.

CLUGSTON IMPLEMENT, Inc.
1 Block off I-81 Exit 8
Chambersburg, PA 17201
Phone: 717-263-4103

bobcat SPERRY NEW HOLLAND

FARM EQUIPMENT

AC 6' snap coupler rear mounted blade $250 7' AC Rear mounted mower for WD or D17 $150. AC snap coupler 2 row mounted corn planter $150. F20 Farmall crack block $200. Lebanon County. 717-865-6860 after 3 P.M.

FARM EQUIPMENT

Eagle

bobcat IH

USED EQUIPMENT

Tractors
Farmall A
Farmall C
Farmall M
IH 240
IH I-656 Gas Hydro
IH F986 D
IH F504
IH F560 Gas
IH F1066 D
IH F1256
IH F300 Gas
JD Cyclone B
MH Pony Outfit with Hydraulics
Ford 8N
Oliver 88D
Bobcat 520 Skid Loader

Plows
IH 550 5-Bottom
IH 531 3F
IH 700 6F Auto. Reset
IH No. 8 Trailing
3F Trailing Plow
Fast Hitch 2 way
MF 3F 16" Mounted
MF 5F 14" Mounted
JD 3F 16" Mounted
JD 4F 14"
Oliver Chisel Plow
JD F125 3F
Ford 5F 18"

Tillage
IH 122 Mtd. Disk Harrow
Lely Power Harrow
MF 3 pt. Disk Harrow
McConnel 20' Spring Tooth Harrow with Transport
JD 10 Ft. Roller Harrow

Combines & Cornheads
IH 127
IH 810 15' Grain Head
IH 227 Corn Head
IH 429 Corn Head on 403
IH 844 Corn Head

Hay Machines
NI 402 Rake
IH 430 Baler
IH 46 Baler w/Thrower
IH 37 w/thrower
IH 420 Baler w/Thrower
IH 10 Bale Thrower
IH 27V Mower
IH 27 Mower
IH 100 Mower
IH 115 Mower
IH 990 9 Ft. Mower Conditioner
IH 1190 Mower Conditioner 9 Ft.
M.C. Rotary Scythe
Kubota 60" Mower
JD 660 Rake
JD 2 pt. Mower
JD Hay Tedder
Myers Hay Crusher
NI Mower
NH 67 Baler
JD 214 Baler

Pickers
IH 2 ME
IH 2 MHD
NI 2-Row Mounted
NI No. 10 Cornpicker

Planters & Drills
IH 500 Planter, 6 Row
Pittsburgh 4-Row 3-pt. Cultivator
IH 251, 2 Row Mtd.
IH 400 Cyclo 4 Row
JD 494 Planter
JD 13x7 Drill
JD FB 1778 Drill, 17x7
JD 1250 Planter
MF 468 4-R Planter

Forage Equipment
IH 16 Harvester w/2 Heads
IH 550 Harvester w/2 Heads
IH 650 Forage Harvester
IH 50 w/PTO Drive
IH 2 Row Wide Row Crop Units
JD 6 Harvester
JD 34 Harvester w/2 Heads
JD 16A Flail Chopper
IH 5 Flail Chopper
IH Hay Pickup 550/650
AC 780 Harvester
Fox 546 Harvester
NH 717
IH 42 Blower
IH 56 Blower
NH 25 Blower
Kools Blower

Miscellaneous
NI EGT 100 electric garden tractor
IH 20 Loader For Super C
IH 85 riding mower
IH 147 Cadet w/Mower
Sears 6 HP riding mower
Snow Blowers For Cadets
IH 530 Spreader
NI Spreader
MF 205 Spreader
Waldron Dozer Blade w/IH or JD Mountings
JD Post Hole Digger
Sunmaster B90 Mower
Woods Cadet 60 Mower
Woods RB7 Blade
Woods M5 Rotary Cutter
Walsh 300 Gal. Sprayer
IH 40 Spreader
IH 580 Spreader
IH 550 Spreader
Badger 205 Spreader
Starline 950 Spreader

This Week's Special...
DEMONSTRATED WALDRON BLADE
Front Mounted for 100+ HP JD or IH Tractor...
$2,250

SWOPE & BASHORE, INC.
RD 1, Myerstown, Pa.
Located 1 Mile S. of Int. 78 & 6 Miles N. of Myerstown on Rt. 645 in Frystown
PHONE: 717-933-4138
Area Codes 215 & 717
Call Toll Free 1-800-692-7467

FARM EQUIPMENT

Ivan's Rental & Leasing

SKID LOADER

Crew Cab Pickups Trailers

717-768-3052
RD 1, Gap, PA 17527

FARM EQUIPMENT

MF 550 diesel combine 4 row narrow corn head, 13' grain table.

MF Super 90 diesel, needs motor work.

717-859-2712

FARM EQUIPMENT

FOR SALE

8 KW PTO generator on wheels, $950
Schedule 80 PVC pipe 3" & 4" Victaulic couplings.
215-286-9510

JOHN DEERE *Nothing runs like a Deere*

USED MACHINERY

TRACTORS:
MF 180D, WFE, New Rubber $7900
Farmall 460 gas, clean ... $3985
Oliver 77 ..... $900
Satoh Beaver 15 hp diesel w/54" mower, 1 yr. old ..... ~~$4200~~ Special! $3800
AC 185 diesel, w/cab, 1400 hrs. $14,500
JD 720 Dsl. $3900
JD 630, tricycle $3200
JD 60 w/3 pt. hitch $1800
JD 4000 Dsl. WFE w/cab $12,500
JD 4020 Dsl. WFE $9750
Coming in...
JD 4520 Power Shift

HAYING:
JD 16A chopper $1800
NI 290 mower-conditioner $1800
IH 1190 mower-conditioner ... $4200
IH 440 baler w/thrower .. $2800

FORAGE:
Fox SPF 2RN 6½' Pickup . $6900
Fox 2RN Snapper Head .. $3500
IH 650 w/2XW - Pick Up .. $1500
IH 555 w/2XW - Pickup ... $1400
JD 38 w/2RN $1800
JD 3800 Long Tongue for Parts $1100

COMBINING:
JD 237 MTD Picker $1400
JD 42 pull type $1400
JD 40 ..... $2900
Oliver 525 self propelled, w/11' grain & 2 row wide ... $6000
JD 444 corn head $5000
JD 6620 side hill w/15' platform $56,000
Coming in...
JD 4400 Diesel w/13' Platform & 443 Corn Head $29,500

TILLAGE:
Pittsburg 4x16 3 pt. plow .. $550
MF 4x16 3 pt. Plow $500
White Off-set disc, 11' ... $4600
JD 350 5/16 reset plow w/cushion coulters ... $3100
JD 145 5/16 Plow $1000
JD 950 12' Roller Harrow $2900

PLANTERS:
2 IHC 56 4 row exc. .. $2700 ea.
2 Oliver 540 4 row .... $600 ea.
JD 1250 6 row plateless w/monitor $1900
IH Cyclo 4 row no-till $2500
JD 1240 plateless $1200

MISCELLANEOUS:
JD 680 Manure Spreader, 400 bu., like new $5900

WINELAND EQUIP. INC.
RD2 Rte 164 East
Martinsburg, PA 16662
Phone 814-793-2109

BINKLEY & HURST BROS., INC.

CASH & CARRY DISCOUNT DAYS

Continues Through

DECEMBER 24, 1981

See December 12 Issue For Many Pages of BARGAINS GALORE!
(Pages C-21 to C-28)

Refreshments Will Be Served

BINKLEY & HURST BROS., INC.
133 Rothsville Station Rd.
Lititz, PA 17543
Phone: 717-626-4705

FARM EQUIPMENT

Ford Tractors Equipment

SPERRY NEW HOLLAND

TRACTORS

Ford 8600 Dsl.
Ford 800 Select-o-Speed
Ford 3000 Diesel
Ford 4000 Diesel SU
Ford 960 Tricycle
Ford 861 Diesel
Ford 8N
Ford 9N
Ford A64 Wheel Loader, 2½ Yd. bucket, 480 hrs.
Farmall M
JD 720 Dsl. w/4R Cultv.
JD 50 w/2R Cultv.

EQUIPMENT

(2) Landoll Soil Savers 11'
Glencoe 9 Tooth Chisel Plow
Glenco 12 tooth chisel plow
Ford 4500 Backhoe / Loader, Excellent
(2) Ford (Demo) Skid Loaders C-L30, C-L40
Massey 82 Combine w/2R Corn Head
New Class Combine w/4 Row Corn Head
NH 519 Sgl. Btr. Spreader
NH 516 sgl. btr. spreader
JD spreader
6 Used Balers
14' Schwartz Dump Body w/winch
Lawn & Garden Tractors w/Mowers

New Holland Skid Steer Loaders At Last Year's Prices

CHARLES S. SNYDER INC.

RD 3 Tamaqua, PA 18252
Phone: 717-386-5945

USED TRACTORS

JD 4040 w/Cab
JD 4430 w/Cab
JD 2840
JD 2640 w/Loader
MF 135
JD 1520 w/Loader
Ferguson 30 w/ Snow Blade
IH 300 w/Loader
Ford 4000
Ford 3000D

USED EQUIPMENT

JD 6620 Side Hill Combine w/6 Row Corn Head
Massey Harris 82 SP Combine
(2) New Idea 10-Ton Spreaders
JD 1240 Corn Planter
White 4-Row Corn Planter

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SHOTZBERGER'S EQUIPMENT
Elm, Pa.
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NEW TRACTORS

JD 2940
JD 4040
JD 4440
JD 4640

NEW MACHINERY

1 - Century 300 gal. sprayer
JD 445 Spreaders N/T $3975
1 - JD 660 Spreader N/T $4500
2 - JD 680 Spreaders N/T each $8595
JD 235 17' Disc
JD 235 19' Disc
JD 1207 Mower Conditioner
JD 1209 Mower Conditioner
JD 1250 Plow 3x16 $1800 N/T
JD 1250 Plow 4x16 $2450.95
3-JD 336 Spring Tooth Harrows No Trade each $995

USED MACHINERY

1974 IH 100 Hydro Tractor Motor overhauled March 1981
2-Chisholm Rider Bean Harvesters w/656 IHC Tractor each $6,000
IHC 400 4R Planter $3500
IHC 400 6R Planter $3500
IH 56 4 Row Planter
JD 145 Plow, 5B 16" $1800
JD 24T Baler w/#30 Thrower $2725
2-18x4x30-8 Ply Tires and wheels for Gleaner Combine
JD 800 SP Windrower $3500

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* Model 3510
* Model 4600 Diesel

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Hesston Model 1520 200 gallon Manure Spreader

MANURE SPREADERS
NI 245 10 Ton
NI 244 8.5 Ton
NI 243 6.5 Ton

NI #456 Round Baler (Demo) Available for Rental

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Wic Straw Chopper w/electric motor.
List Price $1,566
Special $1,195

SPECIAL
$195.00
While Supply Lasts
16" Partner Chain Saws w/case & 4 cans 2 cycle oil

USED EQUIPMENT

USED NI SPREADERS
12 A Ground Drive
(3) #212-146 bu.
(5) #213-176 bu.
(4) #214-206 bu.
(1) #218-300 bu. w/top beater & hyd. gate

USED SPREADERS
(1) IH 275 bu. tandem axle
(1) MF 160 bu.
(1) NH #510 165 bu.
(1) NH #365 tank, left hand unload
(1) Cobey 130 bu. like new
(1) 213 w/top btr. & Hyd. gate, very good cond.

Danhuser 3 pt. Log Splitters

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Skid Steer Loader
7-tooth Glencoe Soil Saver
Log Splitter With Motor

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Dion 26 btr. Fg. Wagon
JD #15 Flail Chopper
Owatonna 120 bu. Grinder-Mixer
Ford 3 pt. 9 Tooth Chisel Plow w/gauge wheels
Brillion 3 pt. 11 Tooth Chisel Plow, like new
V Snow plow
Used 15' Vicon Power Harrow

Model F773 Hvy. Duty Ford Loader w/8' bucket & V Snow Blade w/ brackets to fit Ford 8000 Tractor

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Manure spreaders, Badger model 205, IHC model 550, Also Sun Master 7' Rotary mower, Chester County 215-458-5023

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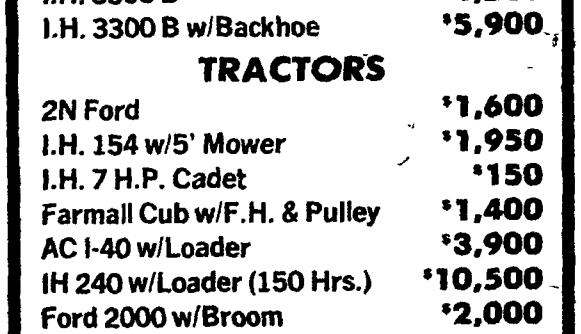

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B5100E Turf	$4,490	$3,440
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L-305 DT	$10,270	$7,840
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Inter. 515 2 cu. yd. Loader
I.H. 125 E Crawler Loader
I.H. 260 Backhoe & Loader
I.H. 270 Backhoe & Loader
I.H. 2410 Loader Tractor

USED EQUIPMENT

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Bobcat 600	$3,900
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I.H. 3300 B w/Backhoe	$5,900

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I.H. 154 w/5' Mower	$1,950
I.H. 7 H.P. Cadet	$150
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AC I-40 w/Loader	$3,900
IH 240 w/Loader (150 Hrs.)	$10,500
Ford 2000 w/Broom	$2,000
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Case 530 D CK	$3,900
I.H. 3444 D	$5,500
I.H. 3514 D	$7,500
I.H. 3514 D	$8,500
I.H. 3500 D	$12,500
I.H. 260 D	3 from $14,500
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CRAWLER LOADER

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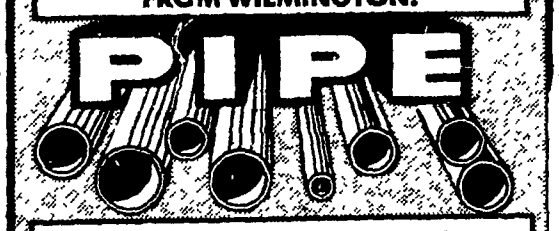

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Ford 9600, 8000, 5000, 4000, 3000, 2000 w/loader, NAA w/loader, (4)-8N
JD (2)-4020, (2)-3020, (2)-620, 2640
IHC (2)-544D, (2)-574 w/loader, 560 D, 504, B 275D, 340, 240, 230, 140, Super MTA, Super M, Super C, Super A, Super AV, 4 cubs
Case (2)-430, 530D w/loader
MF (2)-235D, 135D w/188 hrs., 165D, 38'' tires w/loader, 35, 50

CHOPPERS

NH Super 717- 770, NH 1 row snapper head
Hesston 7020

FORAGE BLOWERS

NH 25, 27, 28
JD Kools & AC

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NH 320, 273, 268 w/throwers
MF 12
Hesston 4500, 4600 rounder

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NI 323 1 row, (4)-NI 325 2 row narrow, (2)-324 2 row wide, 8 & 12 roll husking beds. 314 & 329 Super Sheller attachments.
(2) IHC 1 PR 1 row

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Martin Scavenger
NI liquid
NH 366 tank spreader left hand

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Hesston 1090 pt 10 & pt 7
JD 1209, 1207
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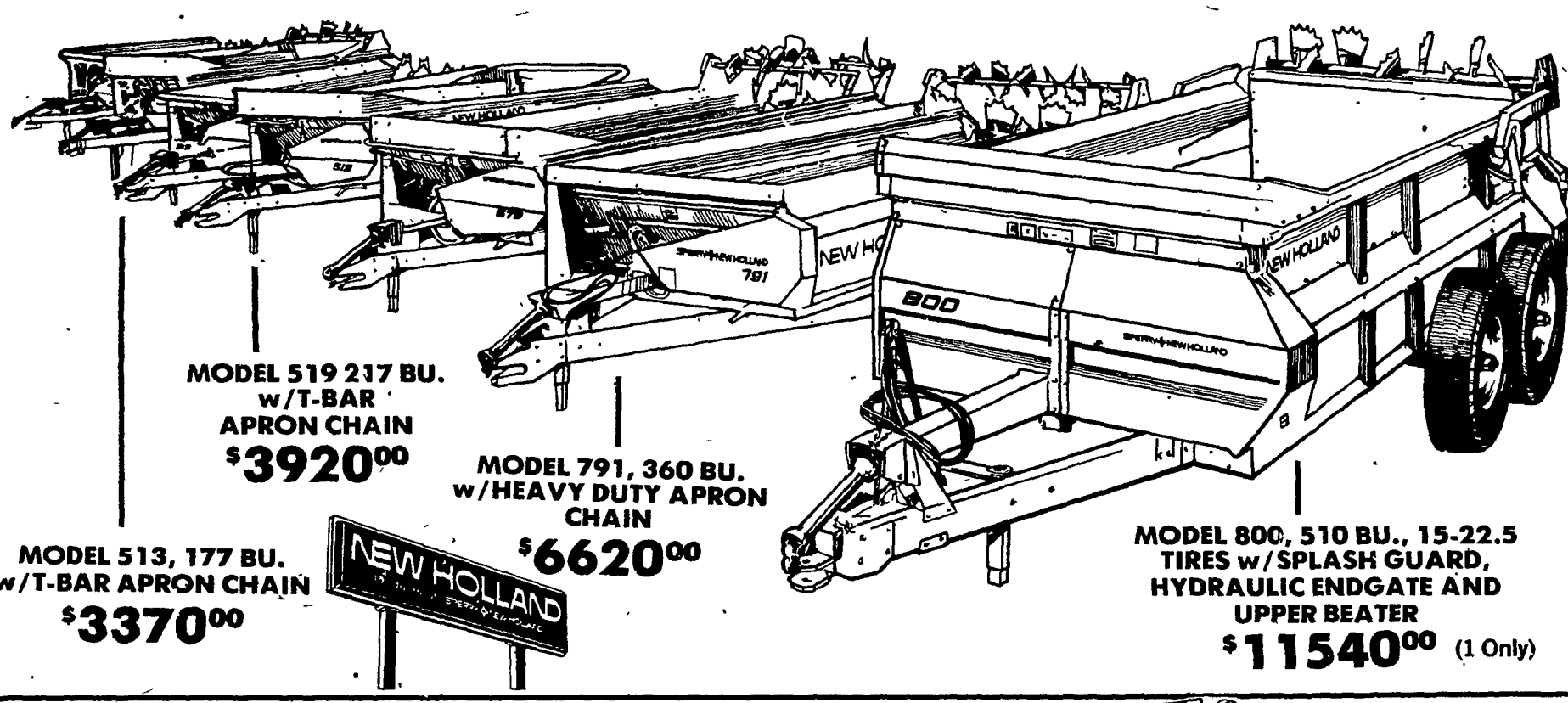

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$3920.00

MODEL 791, 360 BU. w/HEAVY DUTY APRON CHAIN
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MODEL 513, 177 BU. w/T-BAR APRON CHAIN
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MODEL 800, 510 BU., 15-22.5 TIRES w/SPLASH GUARD, HYDRAULIC ENDGATE AND UPPER BEATER
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The Machines Listed Here Are Just Some of The Units Available At Reduced Prices

L-325

22 H.P. KOHLER GAS ENGINE WITH 54" UTILITY BUCKET

$8590
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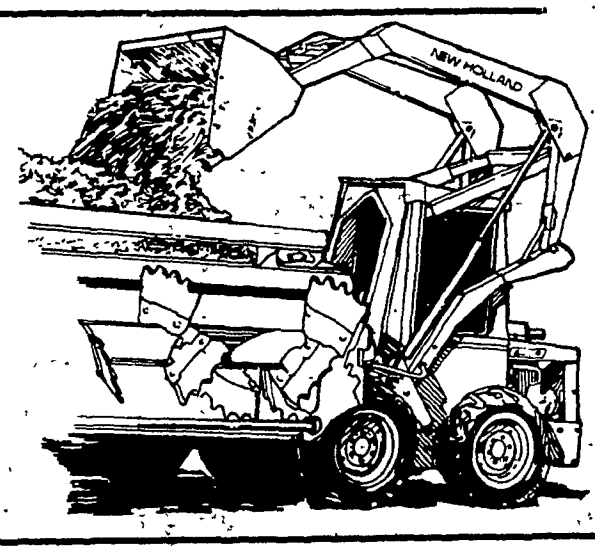
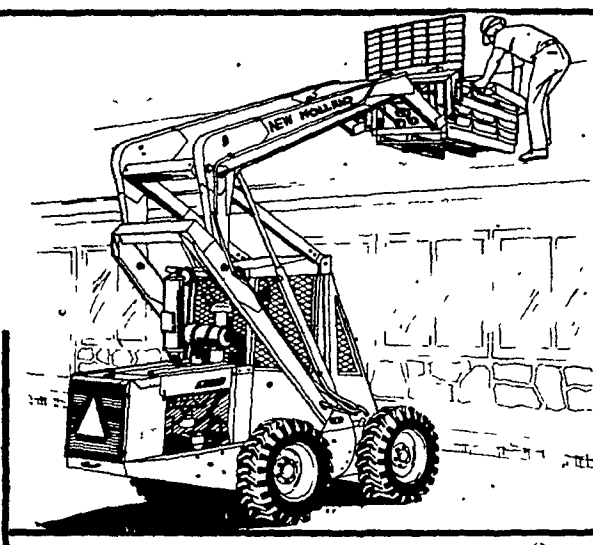


L-778

75 H.P. FORD GAS ENGINE WITH LIGHTS, BELLY PAN AND 66" DIRT AND FOUNDRY BUCKET

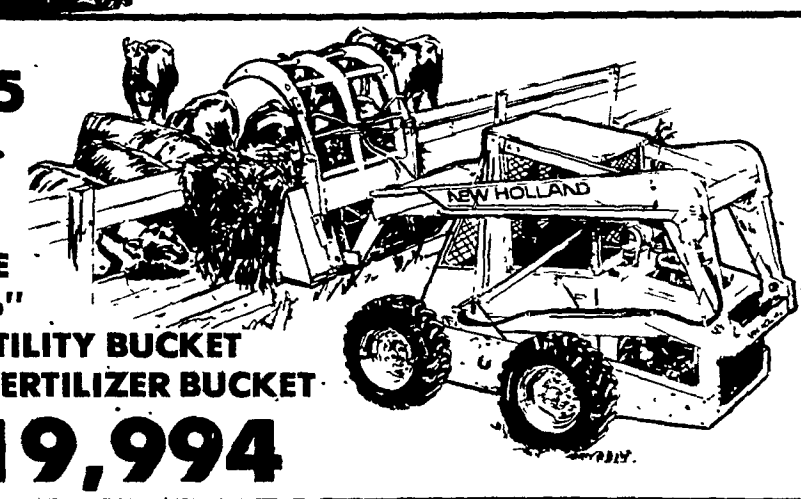
$15,150
(Demo - 1 Only)



L-775

50 H.P. DEUTZ DIESEL ENGINE WITH 66" UTILITY BUCKET AND FERTILIZER BUCKET

$19,994



L-35

37 H.P. WISCONSIN GAS ENGINE WITH 66" DIRT AND FOUNDRY BUCKET

$13,340
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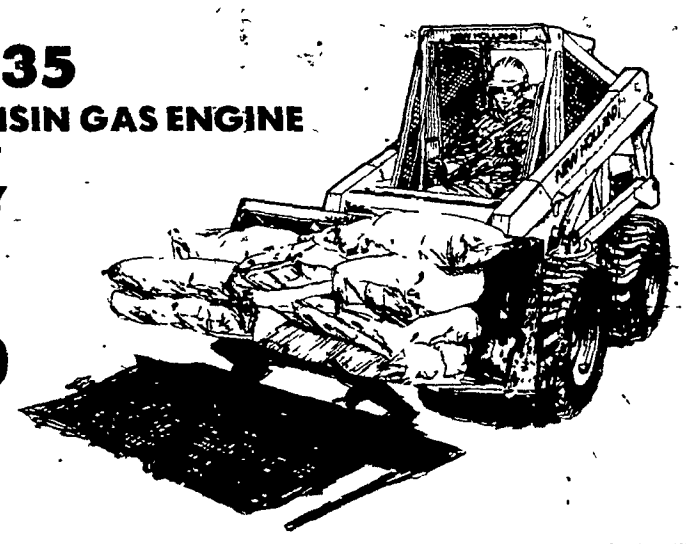

L-779

57 H.P. PERKINS DIESEL ENGINE WITH LIGHTS, WARNING LIGHT, COLD WEATHER START AID, WEATHER ENCLOSURE AND 66" DIRT AND FOUNDRY BUCKET

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Ford Super Major Diesel
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NH L-35 Skid Loader
NH 518 Manure Spreader
Starline Tank Spreader

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(2) MF 300 Combine w/Cab, Q.A., 2-row corn & 10' grain table
JD #45 Combine w/2 heads

DECEMBER SPECIAL
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TRACTOR
100 h.p., 24 speed, cab w/air and heat, 20.8x38 Tires w/front and rear weights.
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John Deere 4520, 4430, 4320, 4030, 1520, 2030 w/loader, 2510, Large Selection of 4010's, 3020, 3010, 60 with 3 point hitch. Farmall 1066, 966 with cab, 806, 826, 460, 450, M, H. Allis Chalmers 210, Ford 8N & 9N, 9000, 9660. MF 180, 175.

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4400 gas Rotary screen, Massey Ferguson 300 with Quick Tach heads (sharp) 2, 3, 4, 6 row John Deere corn heads, 6 row IH head to fit 815 or 915. 105 corn special diesel engine, 4 row corn head.

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1974 Chevy w/new 16' grain body & hoist, 427 engine, 5 spd. trans., 2 spd. rear. 1975 GMC, 5 sp., 2 sp. rear, 366 motor w/air brakes, new 16' body & hoist. 1977 GMC cab & chassis. Ford Louisville w/24' Schwortz roll back.

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1450 John Deere 7 Bottom. Large selection of John Deere 5, 6, & 7 Bottom. Athens 21' Hyd. Fold disk. IH 470 18' Disk. Large selection of smaller John Deere disks.

John Deere 950 15' Mulcher also 12' 950 mulcher. Brillion 18' spring tooth on rubber. Used year around cab for IH 766-1566. Large selection of Fox choppers & head. Good supply of Fox Parts. Fox 3RN corn head, NI 3RN head for chopper. New Fox flail attachment. New Gehl, Fox & Badger Equip. Gehl 95 mill. John Deere 1240 Plate & Plateless corn planters. Over stocked on lids for Hawk spreaders, exc. cond. JD model 2500 6 btm. 18" auto. reset plow. GSI grain bins and augers.
NI Corn pickers: 2 row wide & narrow
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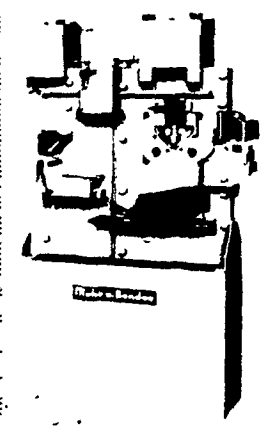

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MF 175
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New L(SOLD) ODT 4 wh drive
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New Long 360 w/Loader
New Long traveling irrigation unit
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Ford 9700 w/cab
Ford TW 10
Ford 8600
4 Ford 5000
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3 Ford 3000
Ford 841
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Case 580B	$11,500
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Cat D9-19A Series w/Ripper	$21,500
Cat D8 46A Series, real clean	$42,000
Cat D4 D 40A Good	$11,500
Cat D8 2U Cable	$8500
Cat D6, hyd.	$6500
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JD 350 6-way angle Blade New Undercarriage	$9200
JD 1010 Dsl. w/winch	$5000

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JD 450 w/93 hoe	$14,500
JD 450	$9500
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Cat 933	$6500
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SKID STEER LOADERS

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Galion 118 Dsl. w/cab	$6500

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Hough 70, 4x4 3 to 4 yd. good	$14,500
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1979 CMI Folding Hydr. Gooseneck 30 ton	$29,500
9 Ton Tag-Along	$1400
9 Ton Tag-Along	$2000
9 Ton Tag-Along new heavy duty	$5100
12 Ton Tag-Along	$2000
12 Ton Tag-Along	$2750
15 Ton Gooseneck, S.A.	$3500
25 Ton Lacross T/A	$5500
Approx. 1½ Ton Tandem Axle Tilt Trailer w/winch	$1200
2 Ton Tilt Trailer	$500
1 Ton Roller Trailer	$800
New Trailers - All sizes and prices	Call

TRUCKS

1965 Int. Dump S.A.	$2500
1965 Int. Dump S.A.	$3200
1956 White 18' bed S.A.	$1800
1967 GMC ¾ ton w/utility box	$800
1970 Chevy Dump S.A.	$3000
1975 Plymouth Fury 6 cyl.	$2000
1973 Buick Riviera	$1500
1969 Ford sgl. axle dump, good	$6900
1965 Ford ¾ Ton	$450
Int. Tandem Axle Dump	$4250
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AIR COMPRESSORS

LeRoy 105	$3500
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Chicago Pneumatic 125, O.H.	$3000

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Fordlane Paver, ex. cond.	$3100
3 Ton Tandem	$2000
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1 to 3 ton Virbra-Pac	$3400
1 to 3 ton Virbra-Pac	$2800
3 to 5 ton Huber Tandem	$5000

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'71 Ski Whiz 440 VG	$450
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MF 180 Tractor	$6850
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Davis Trencher 300+	$3000
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NEW VERMEER EQUIP.
Call For Spring Terms

2-605(SOLD)lers
4-504F baler, only 1 left
1-5(SOLD)aler
1-MC 9 mower-cond., $6470
3-F100 bale feeders, $2495
1-500 gpm irrigation system, mobile equip., soft hose, ½ price - $7400

NEW HAYBUSTER EQUIP.

2-Hay(SOLD)ster model no. 1068 no till semi-mtd. grain drills
1-Tye 3 pt. no till drill
1-Bale Buster for mulching lg. round bales

MISC. NEW EQUIP.

2-Kelly log splitters engine drive
2-600 lb. fert. spreaders, $320
1-1450 lb. fert. spreader, $780

LAHMAN SKID STEER LOADERS

1-30 hp, 2 buckets, $8000
1-23 hp, 2 buckets, $6200

NEW SHIPMENT VICON EQ.
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3-5 wheel 3 pt. hitch rakes
1-6 wheel trailer rake
2-8 wheel - V-rakes
2-2400 lb. fert. spreaders
2-1900 lb. fert. spreader
3-950 lbs. fert. spreader
1-600 lb. fert. spreader
1-8' 3 pt. hitch disc mower

USED & DEMO EQUIP.

1-Vicon 15' power harrow, demo
2-Vicon 8' mower-conditioners, used
1-Vicon 8' mower-conditioner, demo
1-Lely tedder rake, used
1-Badger manure souper, 10' demo
2-used NH balers
1-SP Hesston windrower
1-605D Vermeer Baler
1-605E Vermeer Baler
2-540F Vermeer Baler
1-#10 Hesston Stackhand
1-Model 340 JD Disc Harrow

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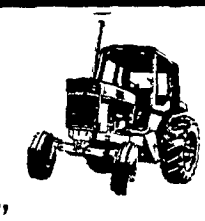

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- ★ WAIVER OF FINANCE ON NEW COMBINES 'TILL 9-1-82 OR 13.9% FINANCING. CALL FOR DETAILS

1440 & 1420 Combines in Stock

In Stock and Ready to Go
Used 1460 combine, 900 hrs., excellent cond.
Waiver of finance available until 9-1-82!!
New IH wide front ends for Farmall 06, 26, 56 Series

AN UNBEATABLE DEAL
NEW IH 720 AUTOMATIC RESET PLOW
w/COLTERS, 5 BTM. 20"
Sale Price $6700

IH SHIPPER'S TWINE
"Finest Twine You Can Buy !!"
Was $28.50
NOW $24.85

New Tractors in Stock at Reduced Prices

3388 MUST SELL. Call for price
986 w/cab
686 F(SOLD)
784 row crop
584 row crop
H84(SOLD)crop

USED EQUIPMENT

F-560 Diesel - recent overhaul
JD 2510 tractor diesel, new short block, exc.
AC D17 gas, good price.
JD 640 Hay Rake, good shape.
NH 273 baler like new fair price.
IH 2400A Diesel w/6 way heavy blade great for snow.
Used IH & Bobcat Skid Loaders

MESSICK FARM EQUIPMENT

PARTNERS in AGRICULTURE

TIME IS RUNNING OUT!!

Take Advantage of Year-End Tax Investment Credit and Company Rebates

See The NEW INTERNATIONAL SERIES 88 TRACTOR

Waiver of Finance on all AG TRACTORS till MARCH 1, 1982

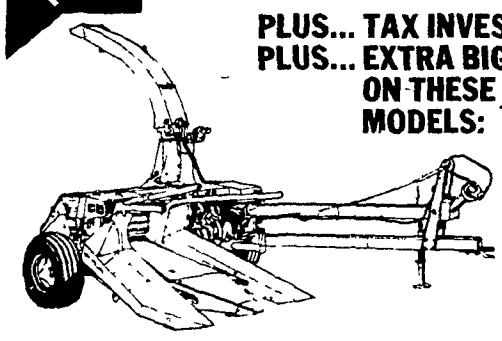
ASK US ABOUT IH COMMODITY CASH BONUS ON ALL NEW IH TRACTORS & EQUIPMENT

YEAR END REBATE SAVINGS on ALL HAY & FORAGE EQUIPMENT

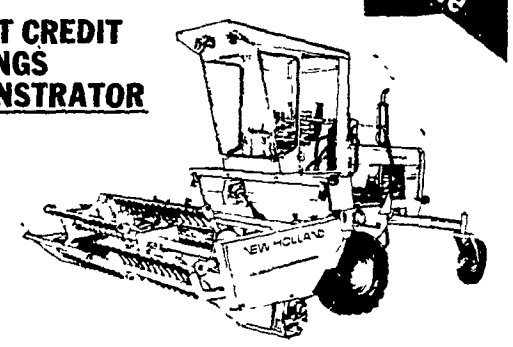
$900 Rebate

$1600 Rebate

PLUS... TAX INVESTMENT CREDIT
PLUS... EXTRA BIG SAVINGS ON THESE DEMONSTRATOR MODELS:



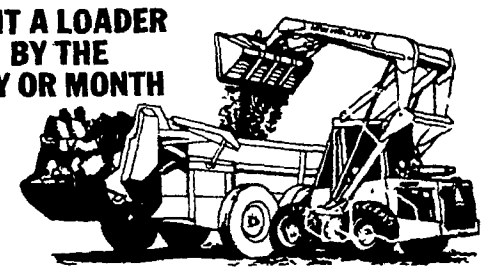
HEAVY DUTY FROM HITCH TO SPOUT:
NEW HOLLAND MODEL 782 FORAGE HARVESTER



NEW HOLLAND MODEL 1495 HAYBINE MOWER-CONDITIONER

SIX MODELS TO CHOOSE FROM:
22 HP to 62 HP, Gas or Diesel

RENT A LOADER BY THE DAY OR MONTH



CHECK OUT THESE SPECIAL PRICES ON SKID LOADERS & SPREADERS

NH 519 Spreader, Hyd. Gate. Splash Guard, Excellent Condition. . . $3,495.00

New Idea Spreader, Model 217, Hyd. Gate, Cylinder & Hoses, Very Good $2,650.00

NH 362 Tank Spreader, Excellent Condition. $1,395.00

NH Model L425 Skid Loader, 30 H.P., Excellent Condition, Low Hours., Only $8,995.00

NH Model L775 Skid Loader, 60 H.P., Low Hours, New Condition, Only $12,000.00

Skid Loader Trailer, Tandem Axle With Brakes & Lights $1,250.00

GOOD CLEAN USED EQUIPMENT

NH Model 850 Round Baler
Several Used Cub Cadets
IH Model 234 Mtd. Corn Picker
NH 770 R2 Corn Head
NH Self Propelled 818 Diesel Harvester
IH 650 2 Row Cornhead and Pickup Attachment
Twin Rower to Pull 2 Rakes
IH 37 Baler w/Thwr.
NH 275 Baler w/Thwr.
NH 489 Haybine, Ex.
NH Model 495 Haybine, 12 ft. ex.
NH 276 Baler w/58 Thwr.
1200 Gal. Aluminum Sprayer Tank
JD 494A, 4 Row Planter
JD 10 Ft. Cult. Mulcher
JD 12 Ft. Cult. Mulcher
JD 1209 Mower Conditioner

LOOKING FOR A CLEAN USED TRACTOR?
Check This Listing And Give Us A Call

- IH 454, 3 pt. Hitch
- IH 574D Row Crop
- IH 656 with New Engine
- IH Farmall M Tractor
- IH Farmall H. Tractor
- JD 320, 3 pt. Hitch, Power Steering
- Oliver 77 Tractor

IH 990 Mower Conditioner
IH 7 ft. Sickle Bar Mower, Good Condition
Brillion 7 Tooth Chisel, Like New
Bush Hog 8 Tooth Chisel, Like New
Oliver 3 Bottom Plow
IH 531 Plow
IH 9A Disc Harrow
JD KBA Transport Disc Harrow
Grove Forage Box Wagon, Ex. Cond.
NI Hay Rake
Fox 3310 Harvester, Super Excellent Condition
IH Model 510 16x7 Grain Drill, Ex. Condition
Skid Loader Trailer, Tandem Axle With Brakes & Lights

MESSICK FARM EQUIPMENT, INC.

VISA

RHEEMS EXIT - RT. 283, ELIZABETHTOWN, PA
PHONE: 717-367-1319, 653-8867
WARREN SPICKLER — HOME 653-4560 RAYMOND MILLER — HOME 653-8762
★ WE SHIP UPS

ALLIS-CHALMERS

Year-End TRACTOR Sale

- Now thru Dec. 30th

Cash Sales Only
At These Special Prices...

AC 5050 Tractor (51 HP) w/16.9x28 Tires . . $10,300
AC 5050 Tractor (51 HP) w/16.9x28 Tires . . $10,300
AC 6060 Tractor (63 HP) w/18.4x28 Tires & Wgts. $13,495
AC 7010 PD Tractor, No Cab, w/18.4x38 Tires & Wgts. $19,300
AC 7010 PS Tractor, w/Cab, Air & Weights. . $23,900
AC 7020 PS Tractor w/Cab, Air & Weights . . $25,995
AC 7060 PS Tractor w/Cab, Air & Weights . . $33,900

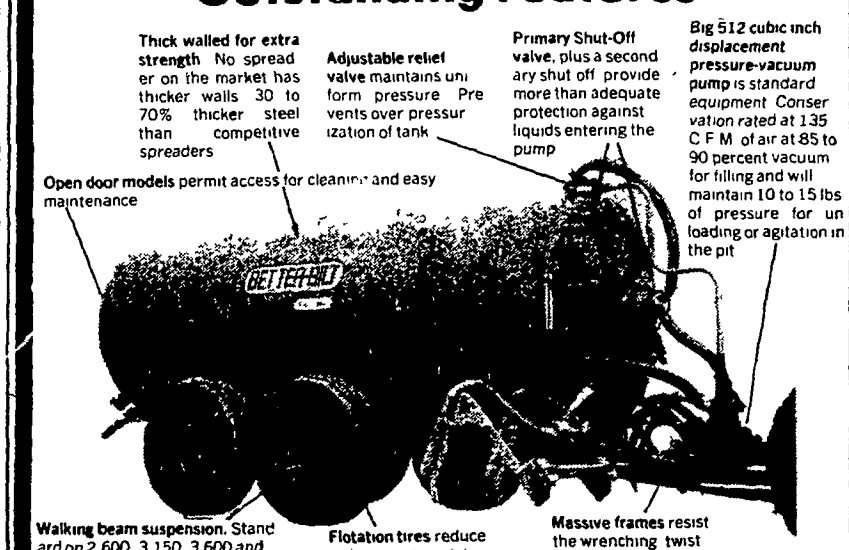
SHARTLESVILLE FARM SERVICE

RD 1, Hamburg, PA
215-488-1025
H. Daniel Wenger, Prop.

BRICKERVILLE EQUIPMENT

SALES * SERVICE * PARTS
537 E. 28th Div. Hwy. Lititz, PA 17543
717-626-6198

Outstanding Features


Thick walled for extra strength No spreader on the market has thicker walls 30 to 70% thicker steel than competitive spreaders
Adjustable relief valve maintains uniform pressure Prevents over pressurization of tank
Primary Shut-Off valve, plus a secondary shut off provide more than adequate protection against liquids entering the pump
Big 512 cubic inch displacement pressure-vacuum pump is standard equipment Conservation rated at 135 C F M of air at 85 to 90 percent vacuum for filling and will maintain 10 to 15 lbs of pressure for unloading or agitation in the pit
Open door models permit access for cleaning and easy maintenance
GET TER-BILT
Walking beam suspension. Standard on 2 600 3 150 3 600 and 4,600 gallon models (Optional on 1,500 & 2,100 gallon models) Front & rear wheels on each beam follow contour of the ground, provides a smooth level ride
Flotation tires reduce soil compaction, let you spread on soft ground early in season
Massive frames resist the wrenching twisting jolting shocks of hard field usage year after year

USED TRACTORS FOR SALE

1 - JD 4020, good cond.
1 - Ford 4000, good cond.
Both Diesels with wide front ends

Sizes - 800 gal. thru 4600 gal.
Both vacuum & augermatic spreaders for truck mount or trailer type

Special - One Only

NEW 2100 GALLON VACUUM SPREADER, TANDEM AXLE TRAILER TYPE WITH STANDARD VACUUM PUMP, 6" SUCTION HOSE AND SIDE LOAD PORT.
SOLD
CALL FOR SPECIAL PRICE

Special - One Only

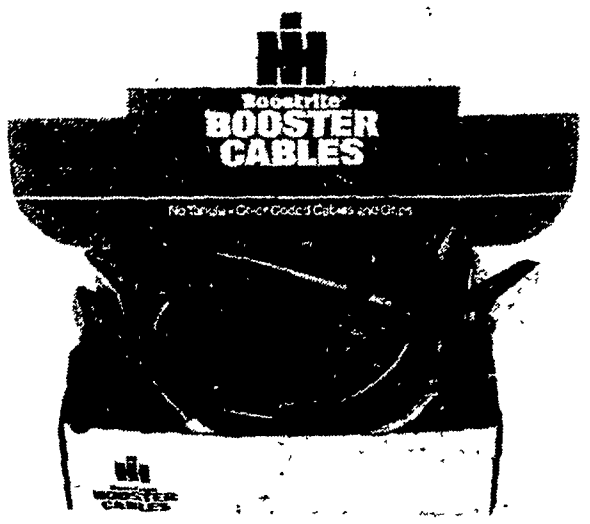
New 3150 gal. vacuum spreader, tandem axle, trailer type w/powerful 727 C.I.D. pump, 1000 RPM, 6" suction hose and load port.
CALL FOR SPECIAL PRICE

CALL US FOR YOUR NEEDS OF

- Farrowing Crates
- Lagoon Pumps
- High Pressure Pumps

There's room under your tree for these Fine Gifts

A splendid way to play Santa... with battery booster cables



With heavy duty clamps, 549 087 C92

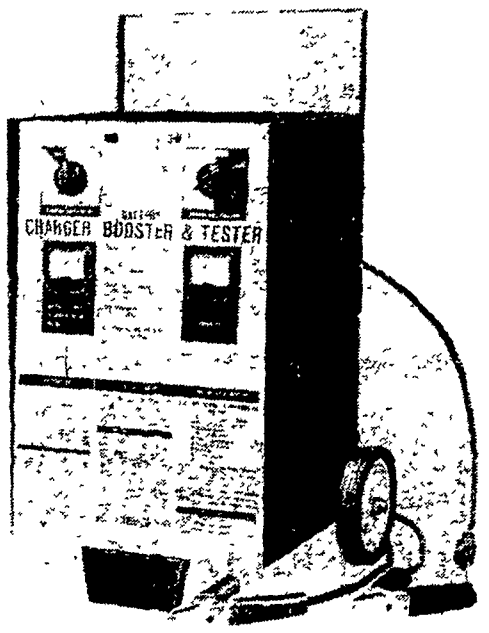
Special $10.95
Savings $3.55

With larger mechanic's clamps.
549 293 C92

Special $16.49
Savings $5.51

Features of both sets:
- Both sets have clamps that can be used on top or side posts.
- Color coded no-tangle 12-ft. cables and clamps.
- Copper plated steel jaws.
- Insulation flexible to 70° below.
- All copper wire for better conductivity.

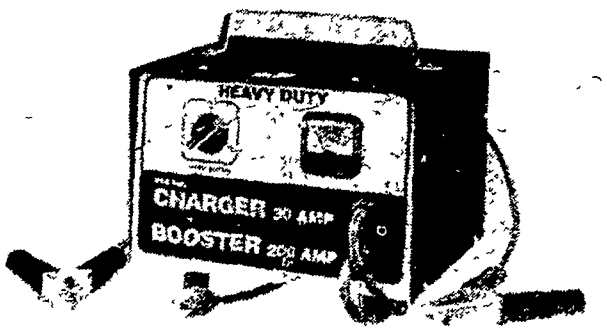
IH battery chargers: Starting power for every need!



80-amp battery charger, booster and tester

- Charges to 80 amps, boosts to 300 amps.
- Tests alternators, battery charge; 7 other tests.
- Exclusive dual meter design.
- Timer.
- Rugged construction.
- Part number, 1131 855 R1

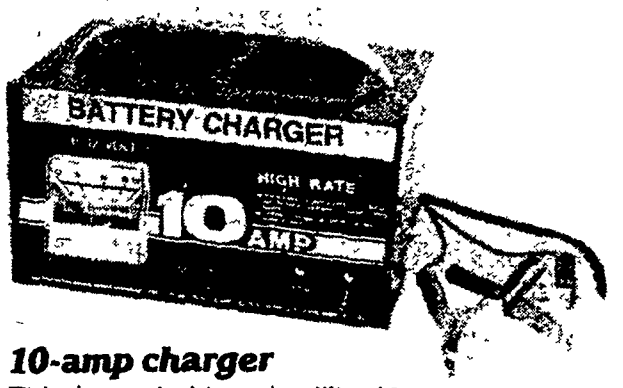
Special $189.95
Savings $81.74



30-amp heavy-duty charger and booster

Fast charge delivers 30 amps, slow charge 5 amps. Booster up to 200 amps. 407 391 R92.

Special $99.95
Savings $41.31



10-amp charger

This household and utility 10-amp charger is an excellent choice for home and farm. 407 389 R92.

Special Price $44.95
Savings $14.79

50% OFF

ALL MODELS IN STOCK

20% OFF ALL TOYS IN STOCK

PARTS VALUE OF THE MONTH

- Maintenance Free
- Low Maintenance
- Heavy Duty
- 6 & 12 Volts
- Top & Side Terminals

Save up to 38% off regular IH suggested list price

Quality IH batteries for cars, trucks, farm equipment, & tractors!

PLUS... TOP DOLLAR TRADE-IN FOR YOUR OLD BATTERY!

BIG SAVINGS ON BATTERY CHARGERS AND BOOSTER CABLES TOO!

C.B. HOOBER & SON INC.

INTERCOURSE, PA 717-768-8231

United Parcel Service

★ CALL US - WE PROBABLY HAVE IT ★ WILL SHIP SAME DAY VIA UPS-PPSH-BUS-AIR FREIGHT-ETC.

YEAR-END SALE - NEW-YEAR SALE

FROM DECEMBER 19, 1981 - JANUARY 16, 1982

LOOK FOR THE WHITE TAGS

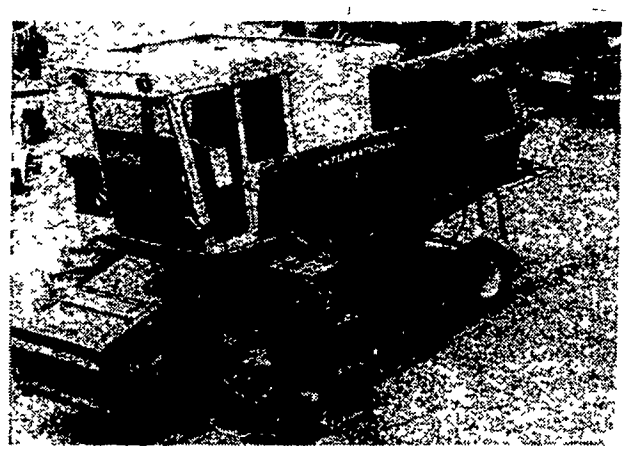
ALL OF OUR USED INVENTORY AND MOST OF OUR NEW INVENTORY ARE SPECIALLY PRICED ON WHITE TAGS. ALMOST 1000 ITEMS SPECIALLY PRICED - MOST BELOW WHOLESALE

STOP IN ANYTIME AND LOOK AROUND

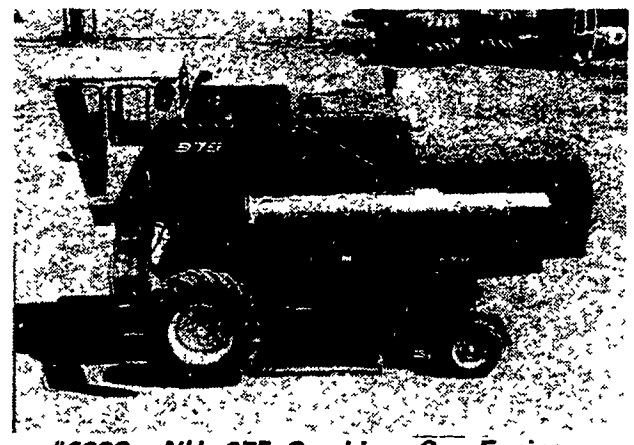
★ ★ ★ WE WILL BILL IN 1981 OR 1982, WHICH EVER YOU NEED FOR TAX REASONS.

★ ★ ★ WAIVER OF FINANCE AVAILABLE ON MOST NEW AND USED ITEMS.

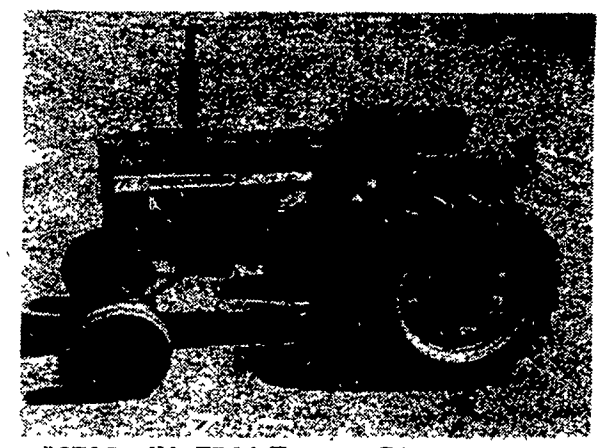
HERE'S SOME EXAMPLES OF USED DEALS



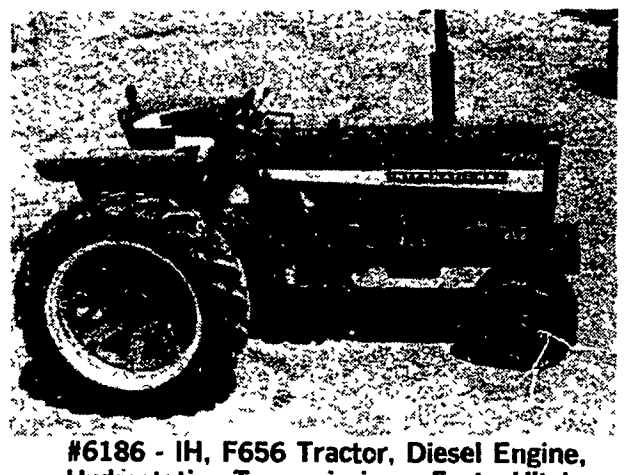
#5742 - IH, 915 Combine, 1976, 1340 Hours, Diesel Engine, Hydrostatic Transmission, 28Lx26 Tires, Base Machine Only. YEAR-END SALE PRICE $23,000.00 (Was $26,000).



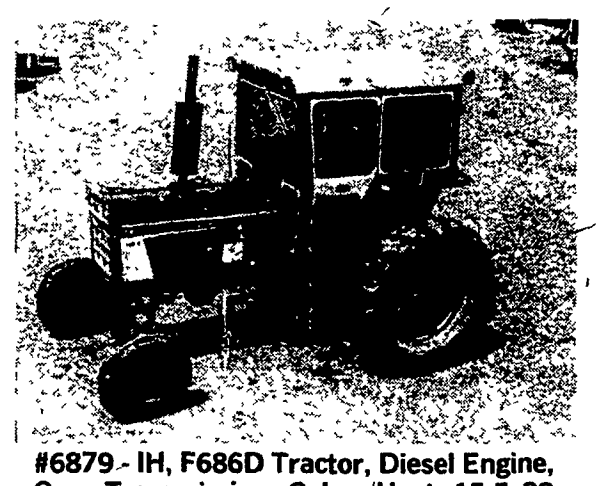
#6098 - NH, 975 Combine, Gas Engine, Vari-Speed Transmission, Cab w/Heat, 16.9x26 Tires, 2 Row Wide Cornhead & 13' Platform. YEAR-END SALE PRICE — $5,900.00 (Was $7,500.00)



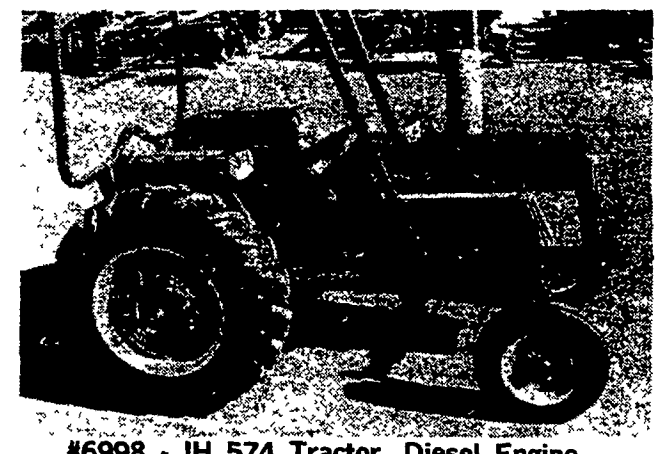
#6702 - IH, F544 Tractor, Diesel Engine, Hydrostatic Transmission, 3 Point Hitch, 15.5x38 Tires. Completely Reconditioned, 4268 Hours. YEAR-END SALE PRICE - $8,500.00 (Was $9,500).



#6186 - IH, F656 Tractor, Diesel Engine, Hydrostatic Transmission, Fast Hitch, Narrow Front, 15.5x38 Tires. 3855 Hours, New Hydro. YEAR-END SALE PRICE - $7,375.00 (Was $8,000.)



#6879 - IH, F686D Tractor, Diesel Engine, Gear Transmission, Cab w/Heat, 15.5x38 Tires, 968 Hours. YEAR-END SALE PRICE - $12,900.00 (Was $13,500).



#6998 - IH 574 Tractor, Diesel Engine, Gear Transmission, ROPS, 16.9x30 Tires, 2865 Hours. YEAR-END SALE PRICE — $6,875.00 (Was $7,500.00).

ALL NEW & USED PRODUCTS BACKED BY HOOBER PARTS & SERVICE

RADIO CONTROLLED TRUCKS FOR BETTER SERVICE

C. B. HOOBER & SON INC.

INTERCOURSE, PA (717) 768-8231 AUTHORIZED UPS STATION

master charge VISA

FARM EQUIPMENT | FARM EQUIPMENT | FARM EQUIPMENT

SPERRY NEW HOLLAND

NEW HOLLAND BARGAIN OF THE MONTH

L-35 Skid Loader, rental unit under 400 hrs. full 12 mo. warranty, includes 84" bucket, full cab w/door, 100 hour checkup.

$9900

M & R EQUIPMENT, INC.
New Park, PA
717-993-2511
717-246-1972

UNADILLA SILO SALES & SERVICE

- ★ Wooden Liners for Masonry Silos
- ★ Pipes and Spreaders
- ★ Wood Silo Houses
- ★ Wood Feed Carts
- ★ Mekio Calf Hutches

Write

D.S. SILO CO.
RD #2 Narvon, Pa. 17555
717-354-4374

INTERNATIONAL® AGRICULTURAL EQUIPMENT

NEW TRACTORS IN STOCK

5288 w/C&A 3 Valves & Radials & 160 hp.
3688 w/Cab & Air 18.4x38 Tires, 110 Hp.
1086 w/C&A 20.8x38 Tires, 130 Hp.
886 w/ROPS 18.4x38 Tires, 90 Hp.
(2) 784 RC w/18.4x30 Tires 67 Hp.
584 RC w/16.9x30 Tires 52 Hp.

ALL TRACTORS WAIVER OF INTEREST 'TILL 3-1-82

NEW EQUIPMENT SPECIALS

IH 1250 Grinder/Mixer $7380. . . . . $6100
IH 595 Spreader, 451 Cu' $8287 . . . . . $6950
IH 550 Spreader 249 Cu' $4845 . . . . . $4100
IH 540 Spreader 210 Cu' $4233 . . . . . $3650
IH 2250 Loader w/Bucket $3621. . . . . $2975

WAIVER OF INTEREST 'TIL 3-1-82

NEW TILLAGE EQUIPMENT SPECIALS

IH 510 4-18 Plow $4250
IH 510 5-18 Plow $4650
IH 720 5-18 Toggle Plow $6200
IH 720 6-18 Toggle or Land . . . $8250
IH 475 12' Disc w/Cyl. $4550
IH 475 17'8" Folding Hyd. w/Cyl. $7250
IH 490 20'6" Hyd. Fold w/Cyl. . $9500
IH 415 Packer Mulcher 12'2" 19" Packers w/Cyl. $4950
IH 5500 9' Mt. Chisel w/Gauge Wheels & HC. $1950
IH 6010 10' Con.-Till w/Cyl. . . . $3850

WAIVER OF INTEREST 'TILL 3-1-82

USED TRACTORS

IH 966, D w/WF & 2.2 pt. . . . $12,500
IH F 544 Diesel w/WF end and 3 pt. hitch $6850
2-IH F-M Any price range
IH 574 Gas 1295 hrs., nice. . . . $6150
IH F 300 Gas w/2 pt. $1750

WAIVER OF INTEREST 'TIL 3-1-82

USED CORN HARVESTING & COMBINE EQUIPMENT

IH Sheller for 234 Picker $950
IH 76 Pull Combine. $650
Fox 1 Row Corn Head for a 546 . $150
IH 2 Row Corn Head for IH 650 . $250

USED HAY EQUIPMENT

IH 990 9' mower conditioner . . $2350
IH 37 Baler w/thrower $1800
IH 15 Rake $375
NH 479 9' Haybine $1500
IH 27 Baler w/thrower $1500
NH 56 Hay rake $750
IH 430 Baler w/thrower $2650
Van Dale Forage box and chassis. $1250
Gehl 72 6' Flail Chopper. . . Coming In
NH 7 Forage Wagon $1650

WAIVER OF INTEREST 'TILL 5-1-82

USED TILLAGE

IH 510 4f 16" nice w/cylinder. $2150
IH 720 6f 18" like new w/cylinder, toggle trip. $6500
MF 4f 14" $300

WAIVER OF INTEREST 'TILL 3-1-82

USED SPREADER AND MISC.

IH 530 Spreader. $1350
IH Wagner Loader w/buckets. . . $450
IH 550 w/new apron $2250
Century 300 Gal. Sprayer $650

WAIVER OF INTEREST 'TILL 3-1-82

USED PLANTERS AND DRILLS

IH 400 6 row 30" real nice. . . . $5950
JD 494 4 row shoe $400
IH 56 2 row real nice $1250
IH 400 4 row 38" $2500
JD 494 A w/new hoppers $1350

WAIVER OF INTEREST 'TILL 5-1-82

MIFFLINBURG FARM SUPPLY, INC.
East Chestnut St., Mifflinburg, PA 17844
Phone: (717) 966-3114
Evenings - 717-524-2924 - Frank Saner

FARM EQUIPMENT | FARM EQUIPMENT | FARM EQUIPMENT | FARM EQUIPMENT

DEPENDABLE MOTOR CO.

East Main St., Honey Brook - Pa. 215-273-3131-273-3737

NEW EQUIPMENT SPECIALS

NH #718 Harvester (1 only) $6050
NH #425 Loader 60" bucket, (1 only) $9975
NH 315 PTO Baler, flotation tires, hitch and chute (1 only). $6595
NH 320 Baler w/70 thrower, hyd. hillside (1 only) $10,150
NH 880W Pickup Head, will fit 880, 890 & 892 Harvesters, 1 only. $1550
NH 456 Mower, 1 only $1770
NH 489 Haybine, 1 only $6675
NH 679 Spreader 11:20 Tires $5465
NH 355 Grinder-Mixer, Heavy Duty PTO 11L tires, 1 only $5650
NH 230 Wagon, 8 rims, standard tongue, 1 only. $620
Pittsburgh 10' Spring Harrow, 1 only $695
Pittsburgh 10'6" Disk, ¼" blades, 1 only $2600
Pittsburgh 12' Field Cultivator, 1 only. $1295
Oswalt Ensilmixer, 1830 trailer w/scales. $9500
Oswalt Ensilmixer, 1830 Stationary w/scales $9390
U.F.T. 72" Flail Shredder. $2160

NH 1895 Self-Propelled HARVESTER, 4 Wheel Drive, Cab, Air, Heater, 3R Head & Pickup Head, 250 H.P. Cat Engine & Meter Detector
$6300. Cash Rebate In Effect..
Call For Special Price.

FREE FINANCE ON
- NH Hay Equipment Till June 1, 1982
- NH Harvesting Equipment w/Hay Head Till Aug. 1, 1982

SPERRY NEW HOLLAND

JAMESWAY OSWALT ENSILMIXER DUNHAM
Leasing Available

USED EQUIPMENT

NH 477 Haybine
NH 479 Haybine
(2) NH 512 Spreaders
NH 518 Spreader, top beater
NH 717 Harvester, 1R Corn Head
NH 707 Harvester w/1R Corn Head
NH 450 Mower
NH 234 Wagon
Bush Hog 12' Offset Disc, 26" blades, excellent condition
JD #210 12' Disc, excellent condition
Jamesway VII Silo Unloader

DEPENDABLE IS MORE THAN OUR NAME

St. Nick can bring beautiful music all year long

PARTS VALUE OF THE MONTH

Erb & Henry's

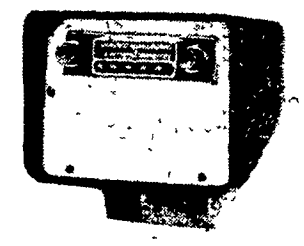
Parts Mart Specials!

The very finest sound system for your Series 86 tractor

For Series 86 tractors, your choice of an AM radio or AM/FM radio Each comes complete with two speakers, speaker panel trim, antenna assembly, mounting hardware, wiring harness assembly

AM radio, 111 640 C92
Special **$69.95**
Savings $45.55

AM/FM radio, 111 641 C92
Special **$104.95**
Savings $64.45

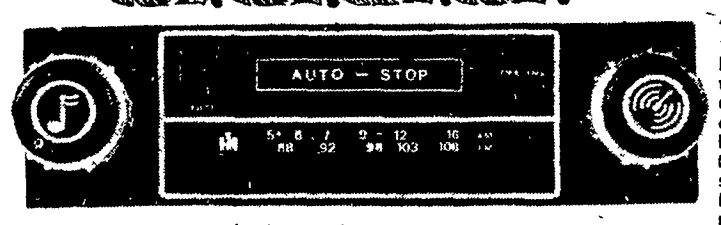


AM-FM pushbutton radio fender mount

Features include heavy duty ABS rust resistant housing, heavy duty 18-gauge inner housing, AM-FM radio bands, solid state construction for instant play, large 4 x 8 speaker, complete hardware and instructions for easy installation Also included are accessory packages for external antenna application 1131 878 R1

Special $109.95
Savings $22.55

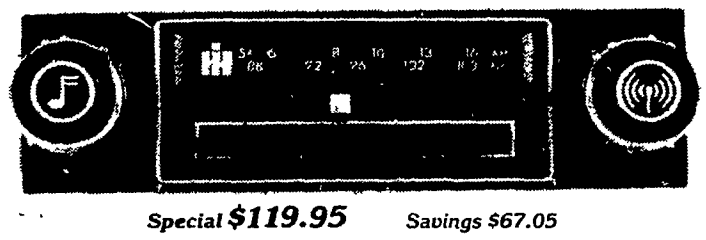
All radios are engineered and manufactured to meet International Harvester specifications and design requirements They are designed to fit IH tractors and combines
Installation available at a nominal charge



Special **$199.95** *Savings $58.55*

AM-FM stereo with cassette tape player

Radio features pushbutton tuning when tape ends radio starts automatically, fast forward tape speed, tape eject, stereo indicator, AM-FM selector left-to-right speaker balance, full range tone control, mono-stereo selector solid state construction for instant play Radio is supplied with complete kit and instructions for easy installation 146 559 C91



Special **$119.95** *Savings $67.05*

AM-FM pushbutton stereo radio

Features include mono-stereo selection switch, AM-FM selector bar, pushbutton tuning, left to right speaker balance control, full-range tone control stereo indicator, solid state construction for instant play Radio comes with complete kit and instructions ready for easy installation 146 558 C91

INTERNATIONAL AGRICULTURAL EQUIPMENT

ERB & HENRY EQUIP. INC.
New Berlinville, PA 1 Mile N. of Boyertown
Phone (215) 367-2169

FARM EQUIPMENT | FARM EQUIPMENT | FARM EQUIPMENT

FORAGE WAGON WOOD PARTS

Wood Mill Corp. supplies wood repair parts for all makes of forage wagons. We have successfully completed many partial or complete wood parts repairs this year for dealers and farmers who own:

New Holland	Gehl	Deere
Kasten	Lamco	Dion
Arts Way	IH	Badger
Rex		

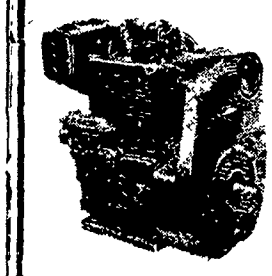
You can buy completely made up and painted sides, floors and tail pieces or whole sets as needed. Install yourself or have us do it. All parts meet or exceed factory specifications. All work is done by experienced forage wagon builders who regularly supply equipment to New Holland, IH, Gehl, Arts Way, Kasten. Call or bring your forage wagons in for an estimate.

WOOD MILL CORP.

RD 1 Farmersville Rd, New Holland, PA 17557

717-354-4919

Let Us Know Your Service Problems



HOOVER DIESEL SERVICE

PH: 717-656-6133
2998 West Newport Rd.
Ronks, PA 17572

NEW SPECIALS

519 NH manure spreader
310 NH baler
165 bu. and 230 bu. gravity blow boxes
6 ton wagon chassis
Myers Snowplows

USED SPECIALS

717 NH forage harvester w/2 row corn head and pick-up head
MM 2 row picker sheller
977 Pasqualli tractor w/3 pt. and loader
1050 Bolens tractor w/42" mower
JD forage wagon

Ask for special prices on items listed above.

Ford Tractors Equipment

EDWARDS FARM EQUIPMENT

291 W. Moorestown Road
Route 512 At Clearfield,
Nazareth, Pa. 18064
Phone 1 (215) 759-0240

See The New Number 1's...

IH 5088 & 5288 TRACTORS ON DISPLAY AT OUR DEALERSHIP!
SPECIAL REBATE AVAILABLE TIL JAN. 31, 1982

ANNOUNCING WAIVER OF FINANCE!

★ WAIVER OF FINANCE TO 3/1/82 ON THESE TRACTORS IN STOCK!
- 1086 Rental • 3788, 3688 & 5288 Diesels
- (2) 584's At Old Price! • 5088 & 3288 Diesels

BIG, BIG SAVINGS AVAILABLE TO CASH BUYERS - Call Us For Details!

TILLAGE:

735 Vari-Width SOLD w, 5 Bottom
730 Vari-Width Plow, 5 Bottom
145 3 & 4-Bottom 18" Rollover, Auto Reset
496 Disc Harrow, 19'1", 9" Spacing (New Model)
501 Disc Harrow, 12'5" - Old Price!
315 Packer Mulcher, 20' Folding, Old Price! (1 left)
415 Packer Mulcher, 13', 12' & 10'
5513 13' 3 Pt. Chisel (1 left)
4500 Field Cult., 12' to 21' Folding
5100 Grain Drill, 16x7 Combination
5100 Grain Drill, 16x7 Plain
5100 Grain Drill, 18x7 Plain

SPRAYING EQUIPMENT:

300 Gal. Poly Tank John Blue Trailing Sprayer
John Blue 4-Ton Trailing Spreader with Hyd. Brakes - $3525!

MISCELLANEOUS:

35 Hyd. Rake SOLD ice!
2250, 2350 & 2450 Loaders
1250 Grinder Mixer
1350 Grinder Mixer
530, 540, 550, 560, 575 & 595 spreaders

Dunham Folding Packers in stock - 23 Ft. & 25 Ft.
- Also 12 Ft. Standard

MORE WAIVER OF FINANCE...

- To 9/1/82 on New & Used Combines Plus $7,000 Preferred Customer Rebate on Model 1420 Combine
- To 5/1/82 on Planting, Seeding & Cultivating Equipment
- To 3/1/82 on Soil Preparation Equip.
- To 5/1/82 on Hay Equipment
- To 9/1/82 on Forage Equipment
- To 3/1/82 on Materials Handling

★ Warranty Period starts on Waiver Date!

HARVESTING EQUIPMENT

Waiver of finance till May 1, 1982
SP Windrowers
Mower Conditioners
Square Balers
Round Balers
Rakes
Ag Mowers
Forage Harvesters

G-1000 JOHN BLUE TRACTOR

With 1-Row Cultivator - Demo
$3800

No. 14 5-Shank Auto-Reset
SUB-SOILER

2 In Stock...Waiver to March 1, 1982
- IH No. 10 7-Shank & 5-Shank Models Also In Stock

ATHENS DISC HARROWS

In Stock - Ready For Delivery
- Model 131 11'6" Flex Disc
- Model 131 12'5"
- Model 90B 15' Rock Flex

IH 5000 DIESEL WINDROWER

MUST SELL!
- With 12 Ft. Head

MAKE AN OFFER!!
- Waiver till May 1, 1982

ERB & HENRY EQUIP., INC.

New Berlinville, PA. 19545

PARTSMART

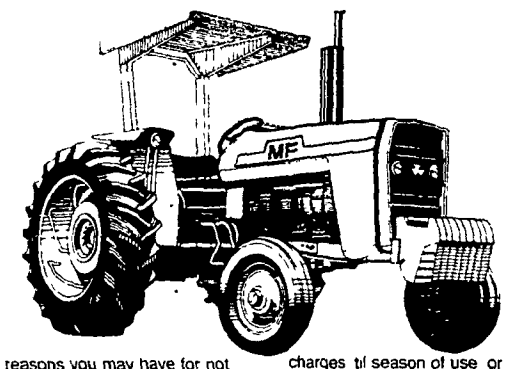
INTERNATIONAL® AGRICULTURAL EQUIPMENT

We're An "XL" Dealer!

Ph: (215) 367-2169
WINTER HOURS:
Daily 7 to 5
Sat. 7 to 1

15% PRICE ROLLBACK IN DECEMBER

Plus Waiver or 13.9% APR Financing



Forget any reasons you may have for not buying a new farm utility tractor right now. Massey-Ferguson has rolled back prices to us in December by 15% on every new 34 to 81 PTO hp tractor on our lot. This means some of the biggest savings we've ever been able to offer to you!

Don't wait. Come in and buy now because these savings apply only to new equipment purchased in December — just in time for year-end tax credits too.

Choice of financing

If you buy now and qualify for financing through Massey-Ferguson, we'll make your deal even sweeter, with a waiver of finance charges 'til season of use or 13.9% annual percentage rate financing for two years. It's your choice. See us now for all the details.

Waiver dates:

Tractors, implements, industrial machines	March 1, 1982
Hay tools	May 1, 1982
Grain combines	August 1, 1982
Corn/bean combines	September 1, 1982

Used equipment savings too.

Waiver of finance charges and 13.9% financing options are also available to qualified buyers through MF on used machinery and equipment on our lot.

Hurry! These price rollback savings are good only during December 1981.

NEW MF TRACTORS IN STOCK

- MF 205-4 Diesel, 20 HP
- MF 230 Diesel, 34 HP
- MF 265 Diesel, 60 HP M.P. Trans
- MF 2675 Diesel, 100 HP M.P. Trans w/cab
- MF 2705 Diesel, 120 HP M.P. Trans. w/cab

USED MF TRACTORS

MH 44 Special, Gas, 44 HP Live PTO..... $975.00
MF 275 Diesel, 8 Speed, 1175 Hrs., good condition..... $10,900.00

NEW AND USED MF COMBINES

MF 540 Diesel (New)..... Call for MF rollback price
MF 510 Diesel (Used) non quick attach, 4 row cornhead & 12 ft. grain table..... $11,900.00
MF 410 gas grain combine..... $6,500.00
★ These used MF combines qualify for 13.9% A.P.R. financing or Waiver of Finance Charges till August 1, 1982

USED LOADERS

Case 310 Crawler w/Loader, Diesel Engine, good running condition..... $3,995.00
Gehl 2600 Skid Loader w/bucket, 25 HP..... $5,800.00
Owatonna Mustang model 310, 16 HP, engine completely overhauled..... $4,800.00

LEBANON VALLEY IMPLEMENT CO. INC.

Richland, PA Ph: 717-866-7518

MF Massey Ferguson

Now more than ever, Massey makes sense.

45th ANNIVERSARY

SALES DAYS

■ PARTS ■ NEW EQUIPMENT
■ GOOD USED EQUIPMENT

DECEMBER 28, 1981
THRU
JANUARY 8, 1982
Mon. Thru Friday 7 A.M. to 5 P.M
Saturday 7 A.M. to 12 Noon
Closed Dec. 25, 26, Jan. 1

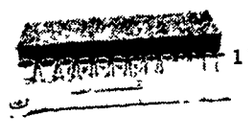
MF 7 PIECE SCREWDRIVER SET

All tools have a full, Lifetime Warranty

Contents - Seven Screwdrivers
- 4" round blade
- 8" round blade
- No. 2 Phillips
- Pocket Screwdriver
- 6" round blade
- No. 1 Phillips
- Stubby Screwdriver
- Plastic Tray

SALE... $9.95

MF 15 PIECE 3/4" DRIVE SOCKET SET



Contents - Thirteen Regular Length 12 Point Sockets (7/8", 15/16", 1", 1 1/16", 1 1/8", 1¼", 1 5/16", 1 3/8", 1 7/16", 1½", 1 11/16", 1¾", 2") Ratchet, 8" Extension & Sturdy Metal Box

SALE... $95.95

MF 14 PIECE COMBINATION WRENCH SET

Contents - Fourteen Combination Wrenches (3/8", 7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", 7/8", 15/16", 1", 1 1/16", 1 1/8", 1¼") and Tool Roll.

SALE... $73.45

MF 14 PIECE ½" DRIVE SOCKET SET

Contents - Twelve Regular Length 12 Point Sockets (7/16", ½", 9/16", 5/8", 11/16", ¾", 13/16", 7/8", 15/16", 1", 1 1/8", 1¼") Ratchet, 5" Extension, and Sturdy Metal Box

SALE... $34.40

HYDRAULIC HAND JACKS & LIFTING EQUIPMENT

Sturdy malleable iron base and head. Forged steel load rest designed to prevent slipping. Twelve and twenty ton models have positioning handle. All models equipped with two-piece pump handle. Individually packaged with handle in carton.

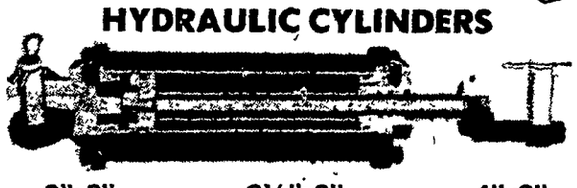
6 ton	Sale $22.05
8 Ton.	Sale $29.75
12 Ton.	Sale $34.13
20 Ton.	Sale $67.43

ALL PURPOSE JACK

(Same As Handyman)
7,000 lb. Capacity

SALE $39.95

HYDRAULIC CYLINDERS



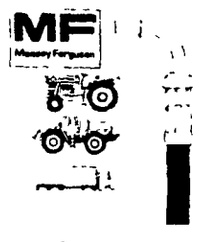
3"x8"	3½"x8"	4"x8"
SALE $64.20	SALE $79.40	SALE $92.65

- ■ Hardened Rod
- ■ Larger Tie Bolts
- ■ Double base ports
- ■ Pre-Stressed Tie Bolt material
- ■ Hardened pins & bushings
- ■ Stronger rolled threads on the bolts
- ■ Harder "O" Ring (90 Durometer) with polyurethane back up seals.

HYDRAULIC HOSE

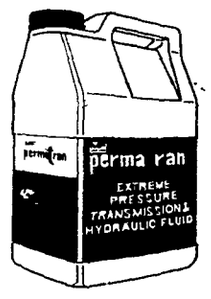
INSTANT SERVICE!

for your farm, construction, transportation equipment.
Our new Massey Ferguson Hydraulic Hose Assembly Equipment can provide almost any Factory-type permanently attached Hydraulic Hose Assembly you may need... in minutes.



3/8" 2 Wire Hose Sale ..... $1.60 ft.
1/2" 2 Wire Hose Sale ..... $1.80 Ft.

SELECTED PARTS SPECI



HYDRAULIC & TRANSMISSION OIL

15% Discount
Off Regular Price

Gives peak performance at extreme pressures and high temperatures. Made to meet MF engineering requirements.

ENGINE OIL - SAE 10W-H.D.

Approved for Gasoline, Diesel and L.P.G. Engine

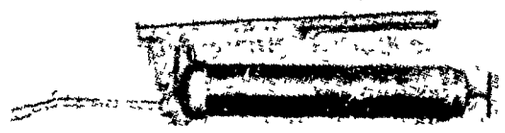
SALE 75¢ per qt.

QUAKER STATE MOTOR OIL

15% OFF
REGULAR PRICE

★ Bring Your Own Containers - Get Bulk Price

"BUY QUALITY"



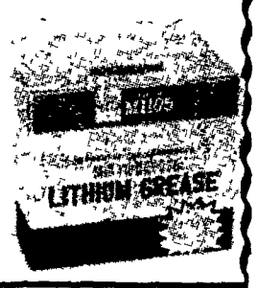
GREASE GUNS

Lever Action	Sale $7.78
Piston Action	Sale $14.22
Flexible Grease Hose	Sale $2.56

GREASE TUBE CARTRIDGE

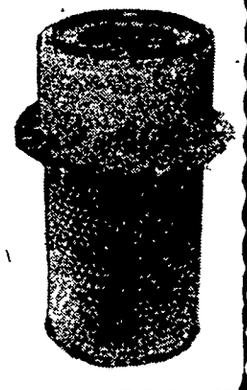
MF "Engineering-specified" and approved M-1105 Grease is a premium grade, extreme pressure multi-purpose lithium base grease. Timken approved for bearing applications.

14½ oz.
Sale 79¢
or
$7.50 for box of 10



ALL FUEL, OIL & AIR FILTERS

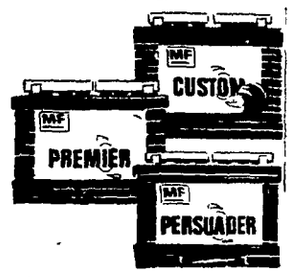
15% OFF
Regular Price



WINTER SALE ITEMS

MF BATTERIES

15% OFF
REGULAR PRICE
THE DEPENDABLE PERFORMERS

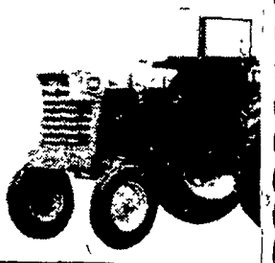


BATTERY ACCESSORIES

Battery Terminal Puller	$7.85
Battery Filler Bottle	$6.75
Battery Terminal Cleaner	$3.54

WEATHER GUARDS

15% OFF
REGULAR PRICE
While Supply Lasts



DELUXE WEATHER GUARDS

Fully enclosed tractor cab built with tubular steel frame and steel top for extra strength.

- Safety Glass Windshield - tinted to cut down sun's rays
- Front Furrow vision - 2 furrow windows of tempered glass
- Left and right hand door - no walking around tractor - easy access from either side.

Only 2 In Stock

(1) for MF 165-175	$465.80
(1) for MF 1105-1135-1085	$351.05

ETHER

8.3 oz. Can $1.49
11.0 oz. Can $1.70

Buy in case lots and receive an extra 5% Discount

ENGINE BLOCK HEATER

- MF Engine block heaters are easy to install & increase battery & engine life.
- Automatic temp. control prevents over heating U.L. & C.S.A. approval.

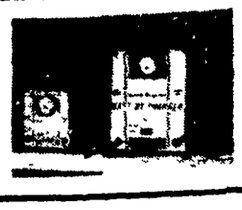
15% OFF Reg. Price

PURSUADER BOOSTER CABLES

	SALE
12 Ft. #69A 400 Amp	$15.98
16 Ft. #49A 400 Amp	$20.87
20 Ft. #49A 400 Amp	$24.48

BATTERY CHARGERS

20 Amp	$98.69
6 Amp	$45.82



TWIS
- Heat treated,
- ½" thick for lo
- Fits 2¼" cent

NE

Part #	
10-019A91	Pr
10-169A91	Ve
10-199A91	Ai
677439	PT
677612	3
10092A91	Pr
10151A91	Lo
677467	Pr
677578	Di
677593	Pr
677600	St
1000 lb. (each)	W

N

15x5 Wheels, 6
15x6 Wheels, 6
15x8 Wheels, 6
15x10 Wheels,

Please mail or call large parts orders now for processing prior to sale days.

MF Massey Ferguson

M.M. WEAVER

LEOLA, PENNA. 17540
PHONE: 717-656-2321

Located: 4 one-half mi Road, one Church.

ER 28, 1981
THRU
RY 8, 1982
day 7 A.M. to 5 P.M.
A.M. to 12 Noon
.. 25, 26, Jan. 1

OPEN HOUSE

SPECIAL 1 DAY ONLY- WEDNESDAY, JANUARY 6, 1982

Maintenance and Operation Seminars
10:30 A.M. Tractors
2:00 P.M. Combines

LUNCH WILL BE SERVED 11-3

★ Representatives from various manufacturers will be on hand to demonstrate products and answer questions
★ Join us during Open House for Fun & Fellowship

S SPECIALS CASH & CARRY

S
..$7.85
..$6.75
..$3.54

r's rays
ered glass
tractor - easy

k
..$465.80
..$351.05

NE
K HEATER
ine block heat-
easy to install &
battery &
fe.
ic temp. control
s over heating
.S.A. approval.
% OFF
g. Price

DER
ABLES
SALE
.....$15.98
.....$20.87
.....$24.48

TILLAGE PARTS

PLOW PARTS
15% OFF
Regular Price

TWISTED CHISEL POINTS
- Heat treated, tumbled & varnished
- ½" thick for longer wear
- Fits 2¼" centers for 7/16" plow bolts

3x½x22 R.H.... $9.95
3x½x22 L.H.... $9.95

NEW SURPLUS SPECIALS
Non-Current Tractor Accessories

Part #	Description	Model #	SALE PRICE
10-019A91	Pre Cleaner	MF 1150	$39.84
10-169A91	Vert. Exh	Mt230-235	$43.04
10-199A91	Air Conditioner	Mt1505-1805	$547.50
677439	PTO Ext.	Mt 165-175-180	$42.53
677612	3 Point Linkage	Mt 20-30 Ind.	$141.78
10092A91	Pre Cleaner	1105-1135-1155	$31.65
10151A91	Lower Link Conversion	1105-1135-1155	$254.29
677467	Pre Cleaner	150-165-175-180	$28.37
677578	Drawbar Hammer Strap	1100-1130-1150	$31.10
677593	Pre Cleaner	1080	$20.58
677600	Stabilizer	1080	$75.45
1000 lb. (each)	Wheel Weights	1100-1130-1150	$750.00

NEW WAGON PARTS

15x5 Wheels, 6 Lug	$10.00
15x6 Wheels, 6 Lug	$20.00
15x8 Wheels, 6 Lug	$25.00
15x10 Wheels, 6 Lug	$25.00

FRONT END WEIGHTS
Easy-to-mount weight frames add safety & stability
SALE..$35.00
While They Last

COTTER PIN ASSORTMENT
SALE $4.14

SPRING PIN ASSORTMENT
SALE $7.80

HITCHPIN CLIP ASSORTMENT
SALE $3.91

CHEMICALS

HAND CLEANER
1 lb. ..... Sale $1.33
4½ lb. ..... Sale $5.82

ENGINE DEGREASER
Ideal for cleaning inside engine compartment. Spray on from aerosol can, wash off with plain water pressure
$3.15

PAINT
Red or Gray

- Spray Can..... $2.53
- Quart $6.72
- Gallon $22.80

MF FIRE EXTINGUISHERS

All Massey Ferguson Fire Extinguishers use A B C Chemical. Class A includes burning wood, paper, fabric and other ordinary combustibles. Class B is fire on top of liquids like gasoline, grease or oil. Class C is fire in live electrical circuits. A B C Chemical has been proven to be most effective in extinguishing stubborn and costly equipment fires.

2¾ lbs. $17.60
5 lbs. $24.44
10 lbs. $42.63

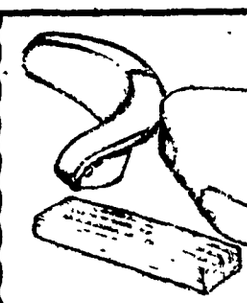
SMV Emblem $5.06
SMV Decal..... $3.87
SMV Spade Mount $1.19
SMV Socket..... $ .98

PRESSURE WASHERS
New Models:

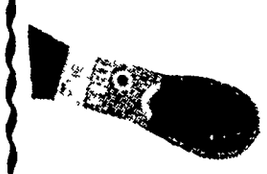
7550 Pressure Washer.. $425.85
7650 Pressure Washer.. $566.00
7750 Pressure Washer $1037.00

Sell Out on Old Models:
450 Pressure Washer $192.00
500 Pressure Washer $265.00
600 Pressure Washer $440.00

PRESSURE WASHER SOAP
General Purpose
10 lb. Pkg. $15.92
Heavy Duty
10 lb. Pkg. $15.51

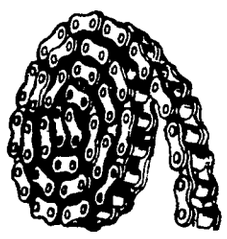


SEAT APPLICATIONS FOR MF AG TRACTORS
15% OFF
Reg. Price



MF BELTS
Genuine Massey Ferguson engineering approved
15% OFF
Regular Price

ROLLER CHAIN
Shot-peened parts, solid rollers, factory pre-stitched, vacuum pre-lubrication. This chain is made of special bushings and pins, and offers tremendous RPM & fatigue resistance.

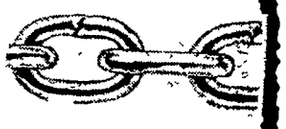


#40 ..... $1.41 per/ft.
#50 ..... $1.93 per/ft.
#60 ..... $2.74 per/ft.
#50 double $4.20 per/ft.
#60 double $5.93 per/ft.

CUTTER BAR PARTS

HART CARTER or MF FLOATING CUTTER BARS
H.C. Sections ..... 99¢ H.C. Guards..... $5.36
M.F. Rigid Headers (Special)
Rigid Sections..... 82¢ Rigid Guards $4.78
Buy complete Knives and have a spare at
15% OFF Regular Price

LOG CHAINS



5/16 40 Grade Chain .. $2.38
3/8 40 Grade Chain ... $2.92
MATERIAL - High carbon steel. Minimum + ensile 85,000 psi.
5/16 30 Grade Chain..... $1.65
3/8 30 Grade Chain..... $2.38
MATERIAL - Low carbon steel. Minimum tensile 55,000 psi

CLEVIS HOOKS
For use with Grade 30 Proof Coil Chain or Grade 40 High Test Chain

5/16 grab hooks..... $2.02
3/8 grab hooks..... $3.26

LINCH PINS
4 for $1.00

VEAVER & SONS, INC.

. 17540
56-2321

Located: 4 miles west of New Holland on Route 23, one and one-half miles northeast of Leola, on the North Groffdale Road, one mile on the right, opposite Groffdale, Mennonite Church.

10% OFF ON ALL OTHER PARTS
SOLD OVER COUNTER FROM DEC. 28 to JAN. 8, 1982
★ CASH & CARRY ★

FOR MORE SPECIALS TURN THE PAGE

45th ANNIVERSARY SALE

★ GOOD USED EQUIPMENT

★ NEW EQUIPMENT

DEC. 28 thru JAN. 8

SPECIAL

FOR THE MONTH OF DECEMBER MF IS OFFERING
A 15% DISCOUNT ON MOST NEW TRACTORS, COMBINES AND EQUIPMENT.

10% DISCOUNT ON NO TRADE DEALS ON ALL USED MACHINES ON THIS LIST AND ALSO ON NEW MACHINES THAT DO NOT QUALIFY FOR THE MF DISCOUNT.

A Special Waiver and Low Rate Financing on Certain Machines

USED CORN HEADS

MF 83 8 Row 30" (2)	@ $7000.00
MF 63 C 6 Row 30" (2)	@ $2500.00
MF 63 6 Row 30" (4)	@ $2100.00
MF 44 4 Row 38" (2)	@ $3500.00
MF 44 4 Row 38" (9)	@ $2500.00
MF 44 4 Row 38" (3)	@ $2100.00
MF 43 4 Row 30" (1)	@ $2500.00
MF 33 3 Row 30"	$2500.00
MF 24 2 Row 38"	$2200.00
MF 422 4 Row To Fit 510	$1200.00
MF 621 4-Row To Fit 510	$1200.00
MF 322 3 Row To Fit 410	$200.00

NEW & DEMO HAY, FORAGE & PLANTING

MF 200 Harvester w/2 Row Head	$5700.00
(4) MF 1 row Corn Head for 200	@ $900.00
MF 260 Harvester 3 Row Head	$7200.00
MF 260 Harvester w/Used 2 Row	$6100.00
MF 22 Bale Thrower	$1520.00
MF 925 9' Haybine	$4800.00
MF 37 PT Hay Rake	$1650.00
(2) Farmhand F7 Hay Rake	@ $1995.00
Farmhand M 25 Hay Rake	$975.00
Niemyer Hay Tedder	$1525.00
(2) Mott 3 pt. 72" Flail Mower	@ $1500.00
(4) Farmhand Corn Processor	$4500.00
(4) Conveyor For Above	@ $950.00
MF 1050 Grinder Mixer	$5700.00
MF 468 6 Row Cornplanter	$2588.00
Farmhand 815 Grinder Mixer	$4900.00
EZ 14' Forage Box, Roof, 10 Ton Gear	$4015.00
EZ 14' Forage Box, 10 Ton Gear	$3715.00
EZ 14' Forage Box, 1074 Gear	$3950.00

TRACTORS USED

MF 1155 8 Sp	$11,000.00
MF Super 90 Diesel	$3900.00
MF 1085 M.P.	$8200.00
Case 1370 Cab	$14,000.00
MF 6 Riding Mower	$350.00
MF 33 Wheel Loader	$9000.00
NW 71 Skid Steer	$8000.00
MF 14 Lawn Tractor	$1475.00
JD 2840	$12,500.00
White 2-150	$15,000.00
IHC 856	$8500.00
MF 4840 265 Hp 4 Wheel	$39,700.00
JD 4010 Diesel	$5500.00
MF 235 Diesel	$5900.00
Long 9500 Diesel	$4500.00
MF 2675	$20,000.00

USED PLOWS & TILLAGE

IH 550 5 Btm Plow	$1500.00
MF 880 4 Btm Plow	$3500.00
MM 6-16 Hyd Reset Plow	$2350.00
Glenco 9 Tooth Chisel Plow	$3700.00
Dunham 3 pt. 10' Chisel Plow	$1600.00
Case 36 Disc Harrow	$1550.00
Brady 12' Field Cultivator	$1200.00
Tandem 20 Disc Harrow	$250.00
2 Btm Trailer Plow	$75.00
JD 3 Pt. 4 Row Cultivator	$500.00
Oliver 4-14" 3 pt. Plow	$450.00
JD Killifer Offset Disc, 20 Blades	$250.00
Oliver 7-18" Semi Plow	$1300.00
Lilliston 10' Rolling Disc Harrow	$2000.00

NEW & DEMO MISC. EQUIP.

York 6' Scraper	$230.00
(4) York 7' Scraper	@ $250.00
York 7' Scraper	$500.00
York 8' Scraper	@ $550.00
York 8' #75 Scraper	$850.00
MF 226 Scraper (3)	@ $460.00
MF 8 10 Ton Gear 11L	$1140.00
MF 7 8 Ton Gear	$775.00
MF 86 12 Ton Tandem Gear	$1525.00
EZ Pincor Gear	$250.00
MF 5 Ton 5th Wheel Gear	$300.00
EZ 672 6 Ton Gear	$675.00
EZ 872 8 Ton Gear (3)	@ $830.00
EZ 1074 10 Ton Gear	$1050.00
MF 216 Q.A. Loader	$1750.00
MF 32A Loader	$3500.00
Dunham 22 Loader (2)	@ $2550.00
Danuser Post Hole Digger	$875.00
Little Giant Corn Drag	$780.00
EZ 170 Bu Gravity Box (2)	@ $530.00
EZ 220 Bu. Gravity Box	$900.00
Danuser Post Driver	$1300.00

USED MISC. EQUIP.

New Holland Tandem Axle Spreader	$2000.00
Fert. Drill	$125.00
Fontana Loader	$800.00
Century Sprayer	$1250.00
Century Sprayer	$975.00
7' Snow Blower	$600.00
Brady 140 Flail Spreader, As-Is	$150.00
Sauder FHV20 Loader	$400.00

WE SOLD 16 NEW MF COMBINES IN THE MONTH OF NOVEMBER. CONTACT US NOW FOR THE BEST SELECTION OF GOOD USED COMBINES.

USED COMBINES

1980 MF 760 V8, 15 ft. Floating Header, 1163 Corn Head	$62,000.00
1980 MF 760 V8, 15 ft. Floating Header, 1163 Corn Head	$57,000.00
1980 MF 750 Hydro., 13 ft. Grain Head	$49,500.00
1980 MF 750 Gear Drive, 20 Ft. Floating Header	$41,000.00
1979 MF 760 V8, 14 Ft. Grain Head, 1163 Corn Head	$51,000.00
1979 MF 760 Hydro 6 Cyl., 15 Ft Floating Header, 1163 Corn Head	$49,000.00
1979 MF 760 V8, with Grain Saver & Chopper	$45,000.00
1978 MF 760 V8, with rear Wheel Drive & Grain Saver	$48,000.00
1978 MF 510 Hydro, 13 Ft. Grain 4 Row Corn Head	$27,000.00
1977 MF 750 Hydro, 16 Ft. Floating Header	$38,000.00
1977 MF 750 Hydro, 14 Ft. Grain Head, 63 Corn Head	$37,000.00
1977 New Idea 708 Uni System Diesel Hydro w/717 Combine, 744 N 4 Row 30" Corn Head and Husker	$38,000.00
1976 MF 750 Hydro, 14 Ft. Grain Head, 44 Corn Head	$38,500.00
1976 MF 750 Hydro, 14 Ft Grain Head	$29,000.00
1976 MF 750 Gear Drive, 14 Ft Grain Head, 1144 Corn Head	$31,000.00
1975 MF 760 V8, 18 Ft Floating Header	$33,000.00
1975 MF 760 V8, 15 Ft. Grain Head	$29,000.00
1975 MF 300 Gas, 13 Ft Grain Head	$11,000.00
1974 MF 510 Diesel, 16 Ft Floating Header	$17,500.00
1974 MF 510 Diesel, 13 Ft. Grain Head, 43 Corn Head	$19,500.00
1974 MF 510 Diesel, Less Heads	$15,000.00
1972 MF 760 Gear Drive, 16 Ft. Grain Head	$19,500.00
1972 MF 510 Diesel Hydro, 13 Ft. Grain Head	$14,500.00
1971 Gleaner "G", 13 Ft. Floating Header, 6R30 Corn Head	$14,500.00
1970 MF 510 Diesel Hydro, Less Heads	$12,500.00
1968 MF 510 Diesel, 13 Ft Grain Head, 43 Corn Head	$15,500.00
1968 MF 510 Diesel, 13 Ft Grain Head	$12,500.00
1968 Gleaner CII, 13 Ft. Grain Head, 4 Row 36" Corn Head	$8500.00
MF 510 Gas, 12 Ft Grain Head, 421 Corn Head	$9000.00
MF 410 Gas, 12 Ft Grain Head, 421 Corn Head	$7500.00
JD 95 Gas, 13 Ft. Grain Head, 3 Row 30" Corn Head	$8000.00
IH 315 Gas, 12 Ft. Grain Head, 2 Row Corn Head	$7900.00
IH 315 Gas, 12 Ft. Grain Head	$4900.00
IH 141, 10 Ft. Grain Head	$2000.00
IH 303, 10 Ft. Grain Head, 2 Row Corn Head	$3900.00
New Idea Sheller Unit	$900.00

DEMO TRACTOR

MF 2775 24 Sp.	$29,000.00
MF 2745 24 Sp.	$28,500.00
MF 255 M.P	$12,200.00
MF 255 8 Sp. Hi Cl.	$11,900.00
(2) Ind 20C Tractor Cabs	@ $1500.00
MF 220-4 Tractors	$7,900.00
MF 4840, 265 Hp., 18 sp. 3 pt P.T.O.	$59,000.00

25% PRICE ROLLBACK IN DECEMBER

on MF4000 Series Tractors

Plus waiver 'til March or 13.9% APR financing

Forget any reasons you may have for not buying a new giant 4-wheel drive tractor now Massey-Ferguson has rolled back our price on new Massey 4000 Series 4WD tractors by 25% for machines sold during December This means some of the biggest savings we've ever been able to offer on these big-acreage, big horsepower tractors

If you buy now and qualify for financing through Massey-Ferguson we'll make your deal even sweeter with a waiver of finance charges until March 1 1982, or 13 9% annual percentage rate financing for two years.

15% Price Rollback on all other new MF equipment.

The savings go on and on because Massey has given us a 15% rollback on all other new MF machines sold during December 1981 Tractors combines hay tools implements industrial machines — you name it The time to save is now!

Used equipment specials too! Choice of waiver of finance charges or 13 9% APR financing for 2 years on selected machines

Hurry! These price rollback savings are good only during December 1981.

MF Massey Ferguson

Now more than ever, Massey makes sense.

SERVICE SPECIAL

FARM EQUIPMENT DOES NOT BREAKDOWN WHEN YOU ARE NOT USING IT... BUT THAT'S THE BEST TIME TO REPAIR IT!

10% DISCOUNT ON PARTS USED ON MAJOR OVERHAULS OVER $500 DURING THE MONTH OF JANUARY 1982. *SCHEDULE YOURS NOW!*

USED HAY - FORAGE & PLANTING

MF 1050 Grinder Mixer	$4850.00
Fox 2000 Harvester 2 Row	$1000.00
and Hay Pick Up	$1000.00
Hesston #10 Stacker	$3750.00
Brady 1680 Flail Chopper	$2900.00
New Idea 315 Picker Sheller	$1800.00
MF 10 Baler w/thrower	$550.00
Farmhand 5 Wheel Rake	$600.00
MF 12 Baler	$1100.00
MF 31 7' 3 pt. Mower	$475.00
AC Flail Chopper	$750.00

NEW & DEMO PLOWS & TILLAGE

MF 43 2-14 Plow	$1060.00
MF 129 3 pt. Chisel Plow	$1375.00
Amco F17 32 Disc Harrow	$5200.00
Dunham 8 Tooth Chisel Plow	$1600.00
MF 730 Disc Harrow 10'	$4950.00
Yetter 15' Rotary Hoe	$1850.00
Dunham 14' Cultipacker	$1350.00
MF 428 4-38 Cultivator	$1250.00
MF 428 4-38 Rolling Cultivator	$1550.00
MF 620, 12' Disc Harrow	$4950.00
Glenco 7 Tooth Soil Saver	$5600.00

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MF Certified Service

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PURCHASE YOUR NEW EQUIPMENT BEFORE JANUARY 1, 1982 AND TAKE ADVANTAGE OF BIG SAVINGS.

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M.M. WEAVER & SONS, INC.

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RECONDITIONED EQUIPMENT FOR SALE

JD KBA 20 and 24 Blade Discs
JD 9' and 12' Spring Harrows
Oliver 12" and 14" Plows
New Idea 751 and 752 Crimpers
MC 1 row cultivators
Garden Shovel Harrows
JD 999 Corn Planters with or without plateless units
Ground Drive Fertilizer Spreader

Plateless Units Mounted on Any Kind of Corn Planters

New bale boxes tobacco presses
9' Cultipackers
1 - Real Good Lely Fertilizer Spreader available
New VICONS
950 and 1400 latest model (bigger sizes available) Pendulum action fertilizer spreaders, 3 angle spreading width up to 45 ft.; ground drive cart for spreaders with clutch; gas or diesel engine driven carts, PTO 3 point hitch.
Trailer carts for tractors without 3 point.
Special prices on all equipment thru Dec.

20" 7 gauge disc blades
List $17.50
SPECIAL $11.85

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FARM EQUIPMENT

Badger — JOHN DEERE — HESSTON FARM EQUIPMENT

USED EQUIPMENT

TRACTORS
MF 65 gas
JD 520 sharp
IH 340
JD 70 skid loader
Case 1537 skid loader

FORAGE WAGONS
Gehl #610
JD 216
Badger 16' w/tandem axle
3 bale wagons

MISC. EQUIPMENT
Haban corn sheller
Hesston tank spreader
NH 512 spreader
JD 737 13' rotary
JD 2450 7 btm. plow
AC 3 pt. 16" plow
IH 3 btm. fast hitch plow
JD 350 5 btm. plow
JD 110 12' disk

SUPER SPECIAL
Badger snow blower 3 pt.
$1350

DECEMBER SPECIAL ONLY

Hesston 2000-100 harvester..... $7500 less rebate $1500
Hesston 1070 mower conditioner .... $4500 less rebate $300

OTHER NEW EQUIPMENT

Badger 2300 vac manure tank..... $6995
JD 1710 11' mulch tiller..... $5500
JD 464 flail spreader..... $3975

John Deere Farming Frontiers
Jan. 8, 1982

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Berks County's Full Line John Deere Dealer - Serving the Oley Valley 45 years 1936-1981

FARM EQUIPMENT

NEW EQUIPMENT
WHITE -
Model 5100 4-Row Planter
2-85 Tractor
2-105 Tractor w/Cab
2-155 Tractor w/Cab

NEW IDEA-
213 Spreader w/Single Beater
214 Spreader w/Single Beater
243 Spreader
244 Spreader
245 Spreader
107 Spreader
325 Cornpicker
406 Rake

GEHL-
2600 Skid Steer Loader
FC7200 Flail Chopper
MX100 Mixer
MX 135 Mixer
CB1000 Forage Harvester w/TR 3038 cornhead & HA1100 hay attachment
F-99 Blower

2 BEHLEN CORN CRIBS IN STOCK

USED EQUIPMENT
MF Model 36 Hay Rake
FB88 Gehl Forage Blower
NH 880 Harvester w/ 3-row narrow cornhead
NI 218 Spreader, Reconditioned

MILLER EQUIPMENT CO.
RD 1 Bechtelsville, PA
215-845-2911

FARM EQUIPMENT

FALL CLEARANCE

NEW TRACTORS
3288
786
884 R/C
584 R/C
584 Utility
384
284D 4 wd
284 w/Woods mower 72"
184 2/Woods mower

NEW EQUIPMENT
IH 80 Snowblower 3 pt. hookup
Tractor Snowblowers for 185
4140 Skid loader
720 automatic 5x18 btm plow
570 5x18
450 3x16
420 3x16
475 11 ft. 6"
350 10 ft. 3"

USED EQUIPMENT
Farmall 1066 w/cab
512 NH spreader w/hyd endgate
510 plow 5 bottom, 16" $1500
475 11' disc harrow

LAMB'S FARM MACHINERY
Thorndale, PA
Phone 215-269-2676

FARM EQUIPMENT

Tractors

AC 210	JD 4010	IH 300
AC 220	JD 2510	IH 350
AC 7030	JD 2010	IH 450
AC 7050	JD A	IH 340
AC 170	JD B	
AC 180		
AC 190		
AC 200		

AC WD's & WD 45's

Used Equip.
Fox SP chopper w/2 or 3 row Head
IH PR1 Corn Picker
NH 845 Round Baler
Farmhand Tub Grinder Model 880

Combines
AC C combines
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AC L combine
AC E combine

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2040 Tractor
336 Baler w/ejector
HD 336 Spring Tooth Harrow
1207 Mower Conditioner
1209 Mower Conditioner
2500 4B Hyd. Reset Plow
660 Rake
331 Spin Spreader
714 Chuck Wagon
1075 Running Gear
1710 Mulch Tiller
Waiver of Finance on New Utility Tractors and Equipment sold with tractors. Also Lawn & Garden Tractors

OTHER EQUIPMENT AVAILABLE
JD 88 Rear Blade 9'
Bush Hog RM30 Rear Blade 6'
Bush Hog 1123-7' Rear Blade
JD 143-145 Loaders
JD 609 Rotary Cutter
JD 850, 950, 1050 Tractors
Century 500 gallon Liquid Fertilizer Sprayer

USED EQUIPMENT
JD B
JD LA
JD 520
JD 720
JD 3010
JD 4020
Farmall H, M, MD
AC C, WC, WD
Ford 8N
Farmhand Chuck Wagon
NH #6 Chuck Wagon
JD KBA Disc
JD 55 Combine w/Corn Head
JD 95 Combine w/ Corn Head
AC Gleaner CII w/C.H.
Bush Hog 1600 Cutter
Wood C-114 Cutter
NH 6' Cutter
Brillion RSS-112 Cutter
JD 507 Cutter

Special Deals on More Equipment not listed. See us Now!

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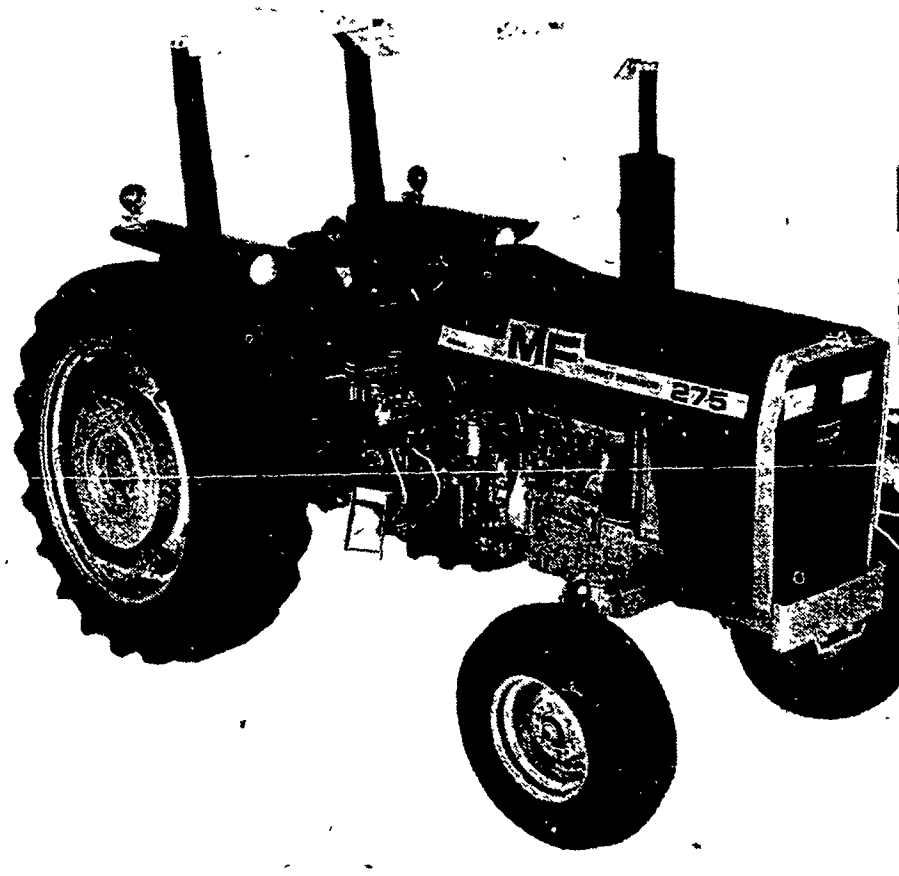
MF Massey Ferguson

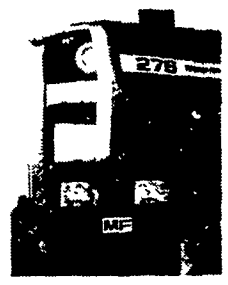
Introducing

THE NEW 200 SERIES TRACTOR

See On Display During Our Sales Days And Open House

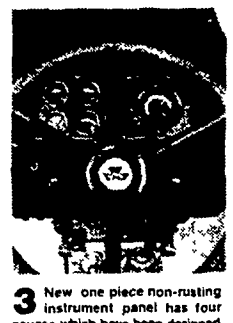
NEW SELLING FEATURES FOR THE 200 SERIES TRACTORS!



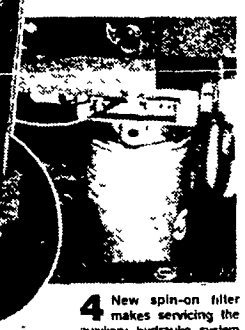


1 The new one-piece grille opens in seconds to service components like the air cleaner, batteries, headlights, oil cooler and oil lines—depending on the model. Saves operator time promotes regular maintenance

2 The steering wheel on these new tractors features a deep-dish design. This raises the rim of the wheel about 2 in (50.8 mm) and puts it in a more comfortable position. It's really noticeable during those extra long days on the tractor seat.



3 New one piece non-rusting instrument panel has four gauges which have been designed for improved reliability and long trouble-free life. Gauges have stainless steel cases—no more rusting



4 New spin-on filter makes servicing the auxiliary hydraulic system faster and easier. Just spin the old filter off spin the new one on—it's that easy. Saves time and messy oil spills

5 Gear shift levers on larger models have been moved forward making a larger open area in front of the seat. This makes it much easier to mount or dismount

6 New push-to-couple hydraulic couplers save your customers time by making hook-ups easier. Operator just plugs the hose into the conveniently placed outlet and he's ready to go

M.M. WEAVER

LEOLA, PA 17540
PHONE: 717-646-2321

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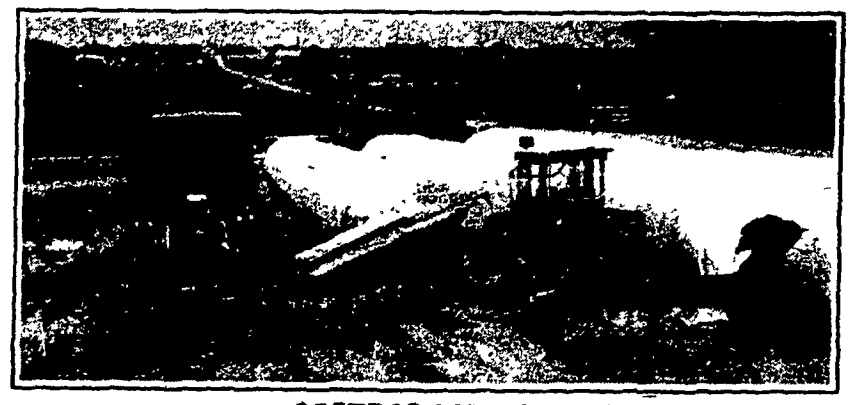

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F-1256 diesel
IH 570 manure spreader
Used Long mod. 910 diesel tractor, 710 hrs., very good cond. $7400
Bolens model HT-20 hp w/mtd. loader w/front blade & rotary mower, good cond.
Oliver 770 diesel tractor, tricycle front end, good cond.
IH 3 btm. semi-mtd. fast hitch plow
IH #710 4 F auto reset plow
Good used lawn tractors.
55 trailing chisel plow
2 Farmall M
One Massey Harris Model 33

IH 1440 axial flow combine w/1150 hours, excellent condition.
IH 71! SOLDrs

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RD2, New Ringgold, PA
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TORQUE AMPLIFIER, CLUTCH & TRANSMISSION PARTS & SERVICE

Rebuilt TA assemblies in stock for IH tractors, New and Rebuilt; Water Pumps, Dynalife clutches, pressure plates, and PTO drive shafts (are spline fitted into pressure plate; IN STOCK for tractors A, B, C through 1586, also for most models of IH combines

Complete TA assemblies for 706-1586 are priced at $550 and come with a Dana Co. Heavy Duty Sprag instead of the usual IH sprag. **The Dana sprag is guaranteed for 2 yrs. against failure.** Sprag kits (includes sprag gear, Dana sprag & piston carrier) and all items for rebuilding your own TA assembly are available to qualified persons. Ramps and carriers for older style TA's (as in SMTA-340-560) are priced at $150 each and carry a 90 day guarantee. We have parts needed for TA repair in stock at prices which will save you money. Shop is available for complete TA installation or split the tractor yourself and send the center housing to us. **Complete rebuilt center housings available on exchange basis or for installation in tractors which did not have TA from factory.**

Selling parts from the following:
Please have part no. when calling if possible.

Quality Reconditioned Engine Parts

We have blocks, cranks, and heads in stock from tractors we have salvaged which have been reconditioned by the most precision-oriented machine shop in the county. We do not sell weld-repaired parts. If you want new quality parts at a used parts price, we can help you. Parts are sold w/a 90 day replacement warranty.

Tractors - IH 1066, 806, 706G, 616D, 450D, 460, 340, 300, M, SM, W-6 & A JD 520, 2020D, 60, A, B Oliver 1555, G-wfront, year round cab.
Combines - IH 203 JD 30 & 55, MF 35, Uni- 701, 702 & 705 tractors, also 710 combines & 727 & 737 huskers MF 510 G Quick Tach
Corn Heads - IH 429 WN, 430, 228, 227, 328 WN

Parts shipped direct thru UPS & Parcel Post at No Extra Charge To Retail Customers

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NEW EQUIPMENT:	List	Asking
* AC 5020 Dsl. (25 hp) Tractor	$7,538.00	$5,275.00
* AC 5020 Dsl. FWD (25 hp.) Tractor	8,319.00	5,860.00
* AC 5050 Dsl. FWD (50 hp) Tractor & Loader	23,626.00	15,990.00
* AC 5050 Dsl. (50 hp) Tractor	16,143.00	9,995.00
* AC 6060 Dsl. (60 hp) Tractor	18,874.00	12,900.00
* AC 6080 Dsl. (80 hp) Tractor	23,756.00	15,500.00
* AC 7010 Dsl. (106 hp) Tractor & Cab, PS	39,625.00	23,900.00
* AC 2600 (19'10") Fold up Disc Harrow	10,859.00	6,700.00
AC 1200 (14') Mounted Cultivator	1,728.00	1,295.00
AC 770 Corn Planter 4 Row, Air, Dry	5,800.00	4,100.00
* AC 333 Corn Planter 4 Row, Plate, Dry	8,420.00	6,995.00
* AC 2313 Disc Harrow 13', 22" Disc	3,620.00	2,650.00
AC 83 Mtd. Plow 3 Bott, 16"	1,637.00	1,100.00
* N.I. 323 1 Row Corn Picker	7167.40	5,500.00
* N.I. 324 WR 2 row Picker & 12 Roll Husker	13,357.00	8,995.00
* N.I. 279 Cut-Ditioner	6,313.00	4,600.00
N.I. 106 Fert. Spreader	645.00	495.00
N.I. 107 Fert. Spreader	609.00	535.00
* N.I. 621 Forage Blower	2,140.00	1,620.00
* Hesston 1090 Mower Cond.	6,430.00	4,950.00
* G.T. 370 Grain Dryer	8,650.00	6,750.00
G.T. 580 Grain Dryer	14,243.00	12,500.00
* Danuser MS-1 H.D. Log Splitter	735.00	550.00
* Haban Corn Sheller, 3 pt. Hitch	1,984.00	1,495.00
Woods 60 Pull type Mower	1,243.00	960.00
* Badger 5800L 1500 gal. Manure tank	6,875.00	4,930.00
* Brillion 8'9" Soil Builder	4,995.00	4,120.00
* Brillion 16' STS Fold up Harrow	1,952.00	1,590.00
Grimm Model "B" Ground Drive Tedder	1,440.00	1,100.00
Grimm Model "C" PTO Tedder	1,540.00	1,375.00

USED EQUIPMENT:	Now
* AC 7000 Dsl. (106 hp) w/Cab Tractor	15,900.00
* AC 175 Dsl. (62 hp) Tractor	8,900.00
* IH 2606 Tractor Dsl. (53 hp)	3,400.00
Case 400 Tractor	995.00
Ford 901 Tractor	1,800.00
* IH 574 Tractor	5,200.00
* MF 410 Combine w/Heads	10,900.00
* MF 510 Combine w/Heads	18,995.00
* N.I. 704 Uni Power Unit & Cab	14,900.0
* J.D. 7700 Combine w/Heads (FEB)	32,000.00
I.H. 715 Combine w/Heads	15,000.00
* Sunflower GS 14- Offset Disc	4,900.00
* Sunflower GS-16' Offset Disc	4,900.00
* N.I. 325 N.R. 2 row Picker & 12 Roll Husker	4,995.00
* N.I. 319 Mtd. Picker Sheller	2,900.00
NI 720 Corn Header	400.00
Hesston PT-10 Windrower	1,500.00
JD 24T Baler & Thrower	1,600.00
NH 460 Windrower	880.00
IH 400 Cyclo 6 Row Planter	3,900.00
JD 3800 Forage Harvester w/Heads	4,500.00

"Conditions of Sale"

1- Prices F.O.B. Dealership

2- Some Prices Include Rebates

3- Trade-ins Considered.

4- Cash or Retail contract.

5- Location — Intersecton Rts. 147 & 225

MECKLEY'S GARAGE

717-758-3915
Herndon, PA

Enjoy Films, Food and Friendship

WE WANT YOU

At Farming Frontiers 1982

MONDAY, JANUARY 4th, 1982

AGWAY

JOHN DEERE

DOOR PRIZES

1. John Deere 82G Gas String Trimmer
2. Agway Pickup Truck 8' Cover
3. Case of Agway Truck & Tractor Oil
4. $75 and $25 Gift Certificates Toward Purchase of JDM Merchandise

LUNCH: From 11:30 to 1:00
FILMS: 10 AM and 2 PM
SEE: 2940 With Cab & Duracushion Disks

SAVE 15% One Day Only - January 4th

CASH DISCOUNT ON ALL JOHN DEERE PARTS IN STOCK OR ORDERED
• Stock Order Only • Order Early For Pickup On January 4th

SAVE 15% One Day Only - January 4th

SAVE 20% JOHN DEERE TRUCKLOAD OIL SALE

Order Early!

Type	List	Sale
TorqGard Supreme 30 - Qt.	$1.60	$1.28
TorqGard Supreme 30 - 5 Gal.	$29.50	$24.95
TorqGard Supreme 10W20 - Qt.	$1.60	$1.28
TorqGard Supreme 10w20 - 5 Gal.	$31.25	$26.11
TorqGard Supreme 15w30 - Qt.	$1.70	$1.41
TorqGard Supreme 15w30 - 5 Gal.	$33.00	$27.50
Hy-Gard Trans Oil - 5 Gal.	$31.00	$25.91
Hy-Gard Trans Oil - 30 Gal.	$184.00	$153.48
Hy-Gard Trans Oil - 55 Gal.	$310.00	$258.71

SAVE 12% FARM TIRES - TRUCKLOAD SALE

Order Early - Field Mounting Available

	List w/FET	Sale w/FET
FRONT RIB TIRES:		
500x15 - 4 ply	$27.95	$25.89
600x16 - 6 Ply	$41.45	$36.60
750x16 - 6 Ply	$56.95	$50.29
IMPLEMENT TIRES:		
95Lx15 - 8 Ply	$51.45	$45.79
11Lx15 - 8 Ply	$57.95	$51.57
125Lx15 - 8 Ply	$70.45	$62.70
AGRI POWER REAR TIRES:		
15.5x38 - 6 Ply	$267.45	$238.03
16.9x34 - 6 Ply	$277.95	$247.37
16.9x38 - 6 Ply	$298.45	$265.62
18.4x34 - 6 Ply	$327.95	$291.87
18.4x38 - 8 Ply	$360.45	$320.80
SUPER POWER PLUS REAR TIRES:		
20.8x38 - 8 Ply or 10 Ply	$629.00	$559.81

RENTAL

1981 JOHN DEERE 6620 LEVEL LAND COMBINE

Fully Equipped with 643 Cornhead. Approximately 225 Hours on Tack. Just Like New with Big Dollar Savings

New List $89,000

NOW $61,900

Interest Waived to 9/1/82

RENTAL RENTAL

RENTAL

BALER TWINE — 50 Bales or More — Cash Price $20.25

BALER WIRE — Early Order Shipment 4/1/82 — Cash on Pickup $34.65

JOHN DEERE 1065 A
7 Ton - Adjustable Hitch Pole
15' x 8 LP Wheel
Knocked Down - FOB Shop
List $1010 SALE $675

UNITED FARM TOOL MODEL 865 FERTILIZER SPREADER
4-Ton, Stainless Steel Delivery Chain, Single Spinner
List $6039 SALE $4750

UNITED FARM TOOL MEHARRY 9-TON AUGER UTILITY BOX
Complete with 8" Auger
List $2387 SALE $1995

DUNHAM LEHR MODEL 42319 WING PACKER
24'9" w/19" Rollers, Dual Wheel Attachment, 16" Hyd. Cylinder
List $6525 SALE $5450

DUNHAM LEHR MODEL 41300 CULTIMULCHER
12'2" w/17" Rollers, 16" Hyd. Cylinder. Serial # 6726 - 1 Only
List $6076 SALE $3995

SAVE!

CAGLE SPRAYER
300 Gallon Tank, Fertilizer, 34 Ft. Boom, Mixing Tank, Centrifugal Pump
List $3275 SALE $2395

CAGLE SPRAYER
500 Gallon Tank, Fertilizer, 34 Ft. Boom, Mixing Tank, Sprayer Mounted Centrifugal Pump
List $4320 SALE $3250

CAGLE SPRAYER
750 Gallon Tank, Fertilizer, 40 Ft. Boom, Raven Electric Auto Control, Mixing Tank, Dual Wheels
List $6079 SALE $5495

SAVE!

HAYBUSTER NO TILL GRAIN DRILL
10'8" w/8" Spacing, 3 Pt. Hitch
List $8600 SALE $7500

KUHN GYRO TEDDERS
Model GF452T, 17' Raking & Tedder w/2 Speed Gear Box
List $3240 SALE $2850
Knocked Down - FOB

LITTLE GIANT 34' ELEVATOR
With Drive & Transport
List $3295 SALE FOB $2150

EZ GRAVITY BOXES

	List	SALE
200W-170 Bu.	$585	$495
300 Deluxe - 225 Bu.	$1055.	$950

FOB Shop

CHAPMAN EQUIPMENT CENTER, INC.

JOHN DEERE

Corner of Ruppsville Road & Chapman Road, Wescosville, Pa. 215-398-2553
Open Monday to Friday 8 to 5; Saturday 8 to Noon

AGWAY

Area Codes 215 & 717 Call Toll Free... 800-322-9289
Area Codes 201, 301, 302 & 609 Call Toll Free..800-523-9323

FARM EQUIPMENT | FARM EQUIPMENT | FARM EQUIPMENT

PUT YOUR MONEY IN THE BANK

Buy A New IH Tractor From Us Now, Trade In Your Used One And Put Your Money In The Bank Until March 1, 1982

NO PAYMENTS, NO INTEREST CHARGES

RINGTOWN FARM EQUIPMENT

RD 1, Ringtown, PA

717-889-3184

New Tractors At Old Prices

1086 w/cab
786 18.4x38 tires
84 hydro row crop
584 row crop
84 hydro row crop
184 w/mower

Combine

1420 combine w/corn & grain heads.

Waiver of Finance till 9-1-82

IH Commodity Bonus

New Implements All w/Waiver Dates

800 cyclo planter	5-1-82	770 offset disc 13'8"	3-1-82
5100 grain drill	5-1-82	370 disc harrow 12'	3-1-82
720 5 btm. auto reset plow	3-1-82	401 harrow 12'	3-1-82
720 4 btm. plow	3-1-82	45 Vibra Shank 12'	3-1-82
140 4 btm. roll over	3-1-82	2250 loader	3-1-82

BROOKS FORD TRACTOR, INC.

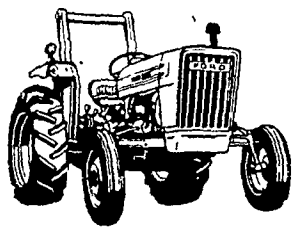
FALL OIL SPECIAL

½ PRICE 10 WT. DIESEL ENGINE OIL

Reg. $6.25 gal.

SALE PRICE $3.10 gal.

FORD CLEARANCE SPECIALS



(While They Last)

1981 FORD 3600 (40 H.P.) No Trade — $10,200

1981 FORD 6600 (68 H.P.) No Trade — $15,500

1979 FORD 4600 With Cab 830 Hrs. No Trade — $11,300

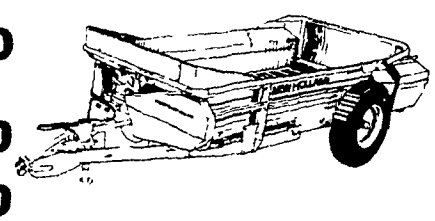
1932 FORDSON — $400

NEW HOLLAND SPECIALS

Lease Returns (1) 513 Spreader 2 Beater w/manure pan — $3,000

Lease Returns (3) 519 Spreader 2 Beater w/Manure Pan — $3,500

(1) 303 Liquid Spreader — $9,200



GOOD USED EQUIPMENT

Mower Conditioner	Owatonna 208	Spreader	New Idea 217
Mower Conditioner	I.H 816	Plow (2 way)	Ford 145
Mower Conditioner	A C. 390	Trailmower	New Idea 254
Mower Conditioner	New Idea 290	Harvester	N.H 707
Flail Chopper	N H 33	Crusher	N.H. 404
Baler	N.H 273	Forage Wagons	N.H. 7

BROOKS FORD TRACTOR, INC.

West College Avenue
Pleasant Gap, PA 16823
PH: 814-359-2751

FARM EQUIPMENT | FARM EQUIPMENT

TRACTORS

Farmall H, good shape
AC D14
Ford 901 PS/3 pt. new tires
IH 560 gas fully equipped, real sharp
VAC Case w/wide front
(3) Farmall M from 1850 to $1450

MISCELLANEOUS

Disc, plows, mowers, balers, wagons, rakes, harvester grain bins, harrows, pickers, & loaders.

COMBINES

MF 35 SP-8' cut
MF 300 $2000
MF 300 w/cab $2500
MF Super 27 Clean $850
MF 410 grain head, nice $950
AC 66 pull
IH 203 10', PS
JD 30 auger feed, pull
IH 93 10'
JD 40 10' clean $2,000
IH loader off of 574
IH 430 snow plow will fit any make $525
Snowplow for $175
JD 110 14' disc $1150
(2)- JD 12' disc $950 ea.
IH 8' disc
JD 8' disc
Hesston 12' hydro swing haybine $1650
NH 1469 self propelled haybine w/cab $2500
NH 40' elevator
IH 700 7 btm. 16" plow $1200
IH 5 btm plow 16' $750
JD 5 btm plow 16" $975

DISMANTLING TRACTORS FOR PARTS

JD 2010, 70D, 4010, IH F 14, A, B, C, H, M, 300, 350, 460, 460 Ut., Supers C, H. & M. JD A, B, 50 & 60. AC WD & D17 Oliver 70 & 77. Ford 8N & 860. Case SC & V.A.C. Massey 44D, MF 85D, IH 400, MTA, 240, F20, WD D2 Cat crawler.
Dismantling 100 combines and 50 pickers for parts

KEITER'S FARM MACHINERY

R.D. #1 Halifax, PA 17032 Rt. 225 20 mi. from Hbg.
Phone: 717-362-9574

ATTENTION! FARMERS & CONTRACTORS

WISCONSIN HEAVY DUTY ENGINES

Skid Loader Replacement Engines New & Rebuilt

DECEMBER SALE

Up to 40% Discount plus 2% Cash

WISCONSIN ENGINE SPECIALS

For skid-steer loaders and many other applications. Available with clutch or PTO reduction.

V465 D, 65 hp. $1975.00
VG 4 D, 37 hp $1445.00
VH 4D $1330.00
WH 4D power unit with clutch reduction $1550.00

DEUTZ DIESEL ENGINES

Model F 2L511 2 cylinder, 26.5 hp at 2,000 rpm $1750.00

Available as a power unit with SAE housing for clutch or clutch reduction.

FACTORY WARRANTY
"AUTHORIZED SERVICE CENTER"

FISHER ENGINE SERVICE

3141 Old Philadelphia Pike
Bird-in-Hand, Pa. 17505
717-768-3729

Used Combines & Cornheads

AC KKS Gleaner w/10' header & 330 cornhead
AC FKS-2 Gleaner Combine, Diesel, 13' Grain Head, Hydrostatic Drive
NI 702 Tr. w/717 combine w/713 S-13' header
IH 315 Combine w/13' grain head & 2 row cornhead
AC C Gleaner w/440 cornhead
(1) MH 82 SP Combine 13' header
2 - MF QT 24 2 row cornhead
NI 728 4-Row Narrow Cornhead

Used Manure Spreaders

NI 244 Manure Spreader w/hyd. end gate (1 yr. old)
NI 224 Manure Spreader (350 bu.)
NH 676 Manure Spreader (275 bu.)
NI 214 Manure Spreader w/3 beater & hyd. end gate
NI 214 Manure Spreader w/single beater & hyd. end gate
NI 214 Manure Spreader w/flail beater
207 Hawkbilt Tank Spreader

Used Tractors

AC 7000 w/cab & Air
AC 5050 w/220 hrs.
AC D15 Tractor
IH 450 Tractor

New Corn Pickers

324/327 2-Row Wide
323 Single Row

Used Corn Pickers

1 - 324/327 2 row wide picker
1 - 729 Uni Sheller
1 - Uni Husker w/702 tractor, 727 husker & 723 2 row head
1 - 726 Uni Husker

Misc. Used Equipment

Hesston 310 self propelled haybine
NI 279 Cutditioner
JD 38 Harvester w/2 row wide & pickup
JD FB17 Grain Drill single disk
Brillion 14' transport harrow
NH Super 717 Harvester w/2 row cornhead
767 Uni-Forage Harvester
Int. 2000 Front End Loader w/fork

New Tractors

In Stock - Priced To Sell!
AC 5030 w/turf tires, 26 h.p.
AC 5050 51 h.p.
AC 6060 63 h.p.
AC 7010 w/cab & air & power shift
AC 7010 w/no cab & 18.4-38 tires
AC 7060 w/cab & air & power shift

NI 1500 Gal. Vacuum Tank Spreader $5,595.00	AC 2500 15' Fold Disc Harrow $6,395
FFP 9 9-Tooth Glenco Soil Saver $6,490.00	AC 2500 12' Non-Fold Disc Harrow $4,350
AC 1200 Field Cultivator 16½ ft. Hyd. Fold $2,650.00	AC 2313 13'2" Disc Harrow $3995
Little Giant Rollaway Elevator $650.00	8C 25HP Hydramac Skid Steer Loader with 2 Buckets-Rental Unit $5,995
Model 2000 Series Semi-Mounted 5 Btm. AC Plow $4,095.00	48' Hub Elevator w/Hopper, Grain Discharge Head & Swivel Spout $3,095 Less Motor
AC Model 2600 Fold Disk 16'8" $7,195.00	
AC 333 No Till Special Corn Planter w/Air Unit & Gran. Fert. Row Marker & Monitor Waiver Until 3/1/82 $7,895.00	Artsway Forage Box with Roof 3 Beater, 10 Ton Gear with 11Lx15 Tires $5,195

ITCO
Dealer for ITCO Corp.
• Over 9,000 items At Discount Prices

AVCO NEW IDEA

SHARTLESVILLE FARM SERVICE

RD 1, Hamburg, PA
215-488-1025
H. Daniel Wenger, Prop.

ALLIS CHALMERS
SPERRY NEW HOLLAND

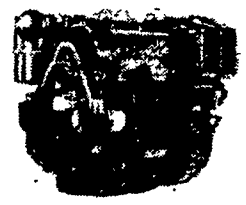
FARM EQUIPMENT | FARM EQUIPMENT | FARM EQUIPMENT | FARM EQUIPMENT | FARM EQUIPMENT | FARM EQUIPMENT | FARM EQUIPMENT

WISCONSIN ENGINES

10% OFF all parts used in engine repairs.

Sales & Service

AVCO VM Diesel



ADAPTABLE TO MOST APPLICATIONS
From 13HP to 200HP
OIL COOLED WATER COOLED AIR COOLED

(1) Used SU 1056 100 H.P..... $3400
★ Will Install In Skid Loaders, Balers, Forage Harvesters, Etc.

LUMBER JACK WOODSAWS AVAILABLE
3 Pt. Hitch, 540 PTO

SALES & SERVICE
MILLER'S REPAIR
1 Mile North of Bird-in-Hand
8 Miles East of Lancaster
RD 1, Bird-in-Hand, PA Ph: 717-656-6109

The Time Is Right
The Price Is Right!!

Used Equipment Specials...

★ SAME AS NEW!
★ GOOD AS NEW!
★ RUNS LIKE NEW!

USED MODEL CL 30 FORD SKID LOADER
New 30 HP Air Cooled Wisconsin Motor, All Standard Equipment, Wide Flotation Tires, 13 Cu. Ft. Utility Bucket, A-1 Condition...
$6995

USED MODEL CL 40 FORD SKID LOADER
Ford 40 HP Industrial Water Cooled Motor, All Standard Equipment, 60" 12½ Cu. Ft. Utility Bucket With Teeth, Sold New June 1980, A-1 Condition...
$7900

Ford Tractors Equipment

Call Ray, Mitch or Walt...
(301) 734-7722
or
(301) 879-1434

Sales & Service On:
• Ford • New Idea • New Holland •

WALTER G. COALE, INC.
2849-53 Churchville Rd.
Churchville, Maryland

NEW LEADER Lime & Fertilizer Spreaders
HI-WAY Cinder Spreaders - All Types
FRINK & VALK Snow Plows

ANVILLE BODY CO.
P.O. Box 217, R.D. #3
Annville, Pa. 17003
Phone 717-867-4631

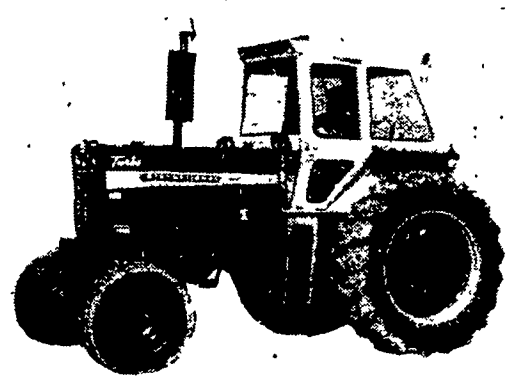
SPECIAL OF THE WEEK
Think Snow!
Be Prepared
(2) New Snow Blowers for Tractors
6 ft. and 8 ft.
Miscellaneous Truck, Tractor and Car Tire Chains

EQUIPMENT FOR SALE OR LEASE

BADGER
3,000 gal. liquid manure tank
1,500 gal. vacuum tank
205 Bushel Manure Spreader
Forage Wagons
Forage Blowers
Bedding Chopper for Mulching
Persuader Pump agitator for Lagoons
Handy High Pressure Washers

Oswalt Mix Wagons
Grain Drill with band seeder
Also:
Registered Holstein Bulls

SHOW-EASE STALL CO.
573 Willow Rd. Lancaster, Pa.
Ph: 717-299-2536



HERR & LEAMAN
Used Farm Equipment Sales & Service
10 miles S. of Lancaster along Rt. 222
GUARANTEED
QUALITY USED EQUIPMENT

Would Sell Any Tractor w/or w/o cab. IH tractors w/3 pt. or fast hitch.
JD 4430 cab, air, real clean tractor
IH 1456 factory cab, air, real clean, fully equipped w/new T.A.
IH 986 - 38" rubber, 4 post roll guard 1 owner, 1200 hrs., clean
Farmall M w/wide front, heat houser. As good as they come.
IH 856 diesel, cab, 38" rubber, fully equipped.
MF 1130 Diesel w/multipower rebuilt 1 yr. ago
IH 1206 WF dual pto, 3 pt. new ta.
IH 1256 nice, clean, original tractor
1968 JD 3020 D, 16.9x38 rubber
1970 JD 3020 D Side Console 38" rubber. Clean local tractor
IH 1066 w/yr. round cab new rubber, TA & clutch, new last fall. Local tractor.
JD 70 Diesel, 3 pt., WF, Pony motor rebuilt one yr. ago.
IH 966
Farmall M with wide front
Oliver 1850 diesel, Perkins (100 h.p.), wf, 3 pt.
AC D17 gas, clean
MF 300 quick attach combine w/cab & air, very clean, 3 row narrow w/13' platform & pickup reel
Gehl 3000 skid loader w/3 buckets, 360 orig. hrs., w/electric clutch shut off
IH 35 hyd. driven hay rake.
NH 354 grinder mixer real nice.
7 or 9 tooth chisel plow, 3 pt. mtd.

MISCELLANEOUS
1 cab w/air to fit IH 06 to 56 series tractors $600
IH & JD rear & front weights
Year round cabs to fit IH 06 to 66 series
Duals for JD & IH 34" and 38"
JD roll bar canopy off of 3020 or 4020.

Box 91 New Providence, PA. 17560
Ph. 717-786-1606 &
Evenings 717-786-4899

WANTED
Used
IRRIGATION PIPE & PUMPS
Send your inventory and price to
EECO, INC.
4021 N. 6th St.,
Harrisburg 17110
717-238-9423

FARM TRACTORS

JD 4010 diesel, cab
JD 2520 side console
JD 2020 diesel
AC 210 diesel
AC D17 diesel
AC WD 45
JD 3010
JD 730 diesel
JD 720 diesel
JD 630
JD 530
JD 50
Ferguson 30

814-793-4293

BLACK STRIPE IHC 1066 TRACTOR CAB, AIR, DIFF LOCK w/2350 MOUNT-O-MATIC LOADER, EXCELLENT

COMBINES

1974 JD 4400 Dsl., Cab & Air, Choice of Heads
1973 JD 4400 Diesel, Cab, Choice of Platforms
JD 3300 Cab and (SOLD) ice of 10' or 13' Grain Platform
Gleaner F w/Cab, G(SOLD)aver, 13' Grain Table, 4 Row Narrow Corn Head, Very Nice
1975 JD 6600 Diesel, Cab, 1,400 hours, Very Good

GOOD SELECTION OF GRAIN PLATFORMS AND CORN HEADS TO FIT MOST COMBINES

TRACTORS

JD 4520 D, Cab, AC, Powershift
JD 4430 D. Cab, Air, Quad Range w/20:38 Tires
JD 4430 4 Post RG, Quad
JD 4320 Dsl. RG Cab
JD 4320 Dsl.
JD 4230 D, Cab, Air & Quad
JD 4230 Dsl.
JD 4000 Dsl. WFE
JD 4020 Dsl. WFE
JD 3020 Dsl. WFE Power Shift
JD 2030 Dsl. RG, 15.5 & 38 Tires
JD 2020 Dsl. Hi-Low
JD 1530 Diesel
JD 300 Dsl. w/Loader 3 Pt
JD 820 Diesel Utility 500 Hrs.
IH 1566 Diesel, Black Stripe, Cab & Air
IHC 1466 Dsl. Cab, Air, Dual PTO
IH 1256 D WF
IH 1066 Dsl. Cab & AC
IH 1066 Dsl. WF Very Nice
IH 966 Dsl.
IH 886 Dsl. Cab & Air Very Nice
IH 766 Dsl. WFE
IH 756 Dsl. WF, 16.9x38
IH 856 D., WF, w/Turbo
IH 856 D. WF w/Fast Hitch 38" Rubber, Very Nice
IH 806 Dsl., WF
IH 574 w/2050 Loader
IH 560, FH
AC 220 WF, Cab
AC 200 WFE & Cab
Oliver 1850 Gas Cab w/Over & Under
Ford 5000 Dsl. Very Nice

BALERS

JD 346 Wire w/Bale Chute or thrower
JD 336 Twine w/Thrower
N.H. 10((SOLD)Wagon
IH 440 w/Thrower Very Nice

CORN HEADS

IHC 820 15' Flex Head, like new
AC F430, G430, C#430
AC KF330
JD 243, 244, 343, 443, 444, 643

PLOWS

IH 540 4x16
IH 710 5x16 spring reset
IH 710 4x18 spring reset
IH 720 6x16 spring reset
JD 1450 5x18
JD 2500 5x18 sp. reset
JD 350 5x16 hyd. reset
JD F 145 4x14, 4x16 & 5x16

DISCS

JD 12'-14'-18' BWF Rock Flex Disc
JD 12' AW Disc
JD 12' Roller Harrow
JD 230 Hyd. Fold 22' w/ Leveling Bar
Bush Hog 1438 Heavy Duty 18' Wing Fold

HEAVY DUTY DISCS

Hutchmaster 12' offset
Rhino 11' Flex

CORN PLANTERS

IHC 400 Air 4R dry fert. and insect., very nice
JD 7000 4R narrow, dry fert. insect., hvy. coulters and monitor
JD 7000 4R Conservation, insect., monitor, excellent
JD 1240 4R Plateless, liquid fert.

MOWER CONDITIONERS

NH 467, 477 7 foot
NH 479
JD 1209

MISCELLANEOUS EQUIPMENT

(2) JD16A Flail Choppers
JD Adaptor Bundle fits 243 corn head to forage harvester
JD B Grain Drill, 16 opener with grass seed
MF 235 Loader w/valve control
JD 58 Loader w/large materials bucket
IH Direct cut for 560-650 Harvester
20' Speed King Wheel Harrow
Cab to fit 06 and 56 IH Tractors.
IHC 18-38 & 18-34 Duals
Hesston Adaptor Bundle to fit Gleaner Corn Head
Little Giant Drag Elevator (new) $425 F.O.B.
NI and JD Wide or Narrow 2 row Corn Pickers

GUNTHER HEUSSMAN INC.
So. 5th St., Emmaus, Pa. 18049 215-965-5203

FARM EQUIPMENT

For Sale - JD 430 w/power steering 7' front mounted. Myers snow plow, Farmall Cub w/front mounted snow plow, front mounted snow plow to fit JD 60, Sauder snow plow 215-679-9010.

FARM EQUIPMENT

One IH 4 row corn planter, one MF 65 gas w/manure loader, one Case grinder mixer, one livestock trailer 10,000 gross double axle electric brakes 717-275-3309

FARM EQUIPMENT

For Sale - IH 400 cyclo cornplanter, no till attachment, depth control wheels, covering discs, dry fertilizer, Gandy insecticide boxes, seed corn monitor, $1800. 215-837-0847

FARM EQUIPMENT

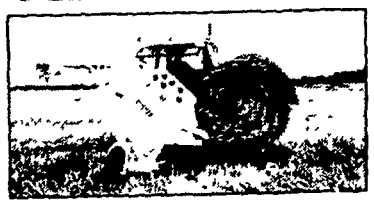
FARM EQUIPMENT

FARM EQUIPMENT

FARM EQUIPMENT

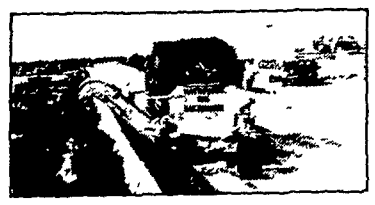
HAYBUSTER®
BIG BALE BUSTER®
THE SENSIBLE SOLUTION FOR FIELD OR FEED BUNK FEEDING

a new idea to save you time and money



Just lower the fork (hydraulic operation), back it under the bale and the bale is lifted into the shredder.

Use the BALE BUSTER for "bedding" - inside or outside. Drop adjustable deflector down for range feeding. Spreads bale in an easy-to-feed windrow.



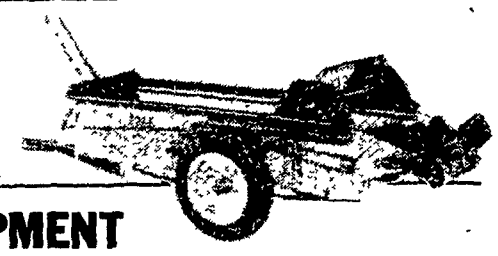
Shredding big bales into feed bunks is an easy job for the BALE BUSTER. Flow control valve regulates grinding for coarse or fine feed . . . SENSIBLE!

Shred big bales right in the field for range feeding. The BALE BUSTER lays ground hay evenly in easy-to-feed windrows — no trampling or hogging by cattle . . SENSIBLE!
A one man operation, simply back up to the bale . . pick it up with the fork . tilt it into the BALE BUSTER . . . all in a few seconds. You're ready to shred hay into feed bunks or field windrows . . SENSIBLE!
(Bunk feeder attachment optional)

RED WING FARMS
Fleetwood, Pa.
215-944-0791 or 215-944-9583
TRIPLE H EQUIPMENT
Peach Bottom, Pa.
717-548-2640 or 717-548-2094

HAYBUSTER
Box 1950
Jamestown ND 58401
Phone 701 252 4601

206 GROUND DRIVE SPREADERS
IN STOCK



USED EQUIPMENT

TRACTORS
Case 930
Case 1070 D
Case 1370 C-A-H
Ford 4000 G
IH 660 D
IH 1066 Hydro
MF 2135 Turf
AC 7040 C-A-H
AC 7080 C-A-H
DB 1200 D
MM Jet Star 3 diesel

LOADERS
Case 380
1530 Uniloader
Uniloader Broom
1830 Uniloader
1845D Uniloader

UNI-SYSTEM
701 Power Unit
702G w/combine
767 harvester
762 row crop
760 hay pickup
730 4RW Head

NEW IDEA
Manure Spreaders
212, 213, 214, 224, 218
325/314 picker sheller
323 one row picker
325/327 Picker
329 Super Sheller

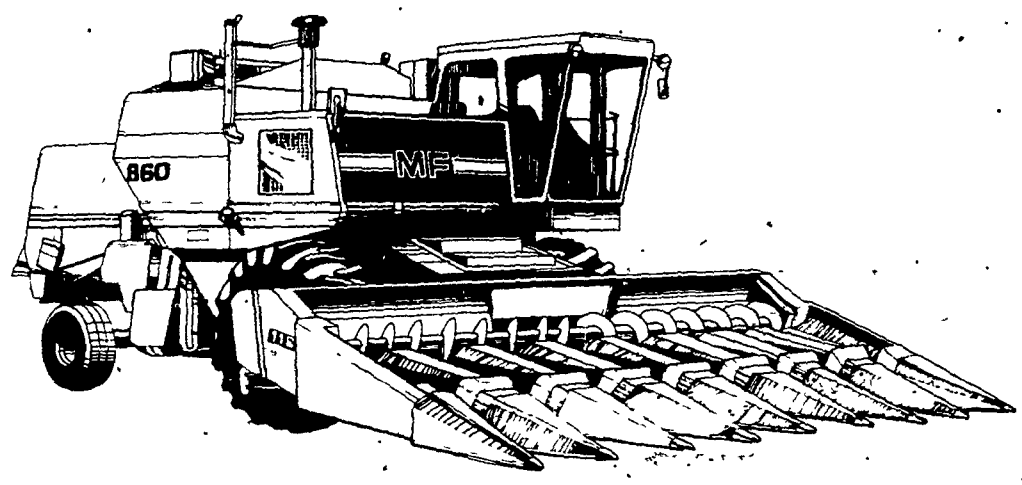
FORAGE
Gehl 600 harvester
J.D. 65 blower
N.H. 1880 SP

MISCELLANEOUS
Ford 101 plow
Hesston PT 10
JD 12' Disc Harrow
NH Lime Drill
Lilliston 6' Mower

A.L. HERR & BRO.
PARK AVE., QUARRYVILLE, PA 17566 PHONE: 717-786-3521

case AVCO NEW IDEA GEHL "Gets into your system" BUSH-HOG

15% PRICE ROLLBACK IN DECEMBER
Plus Waiver or 13.9% APR Financing



Forget any reasons you may have for not buying a new combine right not. Massey-Ferguson has rolled back prices to us in December by 15%...on every new Massey combine on our lot. This means some of the biggest savings we've ever been able to offer ...to you!

Don't wait. Come in and buy now, because these savings apply only to new equipment purchased in December — just in time for year-end tax credits, too.

Choice of financing

If you buy now and qualify for financing through Massey-Ferguson, we'll make your deal even sweeter, with a waiver of finance charges 'til season of use, or 13.9% annual percentage rate financing for two years. It's your choice. See us now for all the details.

Waiver dates:

Tractors, implements, industrial machines ..... March 1, 1982
Hay tools ..... May 1, 1982
Grain combines ..... August 1, 1982
Corn/bean combines .... September 1, 1982

Used equipment savings too.

Waiver of finance charges and 13.9% financing options are also available to qualified buyers through MF on **used** machinery and equipment on our lot.

Hurry! These price rollback savings are good only during December 1981.

MF Massey Ferguson

Now more than ever, Massey makes sense.

Gus Farm Equipment, Inc.
Intersection of Rts. 616 & 214
Seven Valleys, PA
717-428-1967

WHITE Farm Equipment

bobcat® KUBOTA® SPERRY NEW HOLLAND

USED EQUIPMENT

TRACTORS
Oliver 770

HAYTOOLS
NH 268 Baler w/Thrower
NH 269 Baler w/Thrower
NH 270 Baler w/Thrower
NH 846 Round Baler
NH 68 Baler
NH 275 Baler
Oliver 620 Baler w/Thrower
JD 483 Mower Cond.
NH 467 Haybine
NH 469 Haybine

SKID LOADERS
NH L-35, 358 Hours
Bobcat M600

TILLAGE - PLANTING
White 5400 Planter
MM 4-16 HAR Semi Mtd. Plow
JD 1240 4-Row w/Monitor
Ontario 16-7 Grain Drill, 1 Yr. Old
IHC 16' Cart Harrow

FORAGE TOOLS
NH Super 717 w/1-Row
NH 717 Harvester w/1-Row
NH 880 R2-2-Row Head

CORN PICKERS & COMBINES
NI 324 2-Row w/12 Roll Bed

SPREADERS
JD 54 Spreader
NI 212 Spreader
NI 214 Spreader
NH 510 Spreader

NEW EQUIPMENT IN STOCK

WHITE
2-30 Two Wheel Drive
2-45 2&4 Wheel Drive
2-62 Tractor
2-105 Tractor
WHITE
543 6R Planter No Till
5100 6R No Till
WHITE 254 10'4" disc
N.H. L425 Loader
N.H. 256 - 258 Rakes
N.H. 707, 718, 782, 892 Harvesters
N.H. Spreaders - 513, 519, 679 & 800
Vicon 3 pt. Fert. Spreader
Bobcat 530, 641 & 743
Tye No Till Drill
Glenco 7' Soil Saver
Morridge 275 Grain Dryer

SPECIALS
Woods M5 3 Pt. Rotary Mower $675
Woods M72 PC 3 Pt. Rotary Mower $895

DUNHAM - BRILLION - LAMCO - BOBCAT

NORMAN D. CLARK & SON
Honey Grove, PA 17035 - Phone 717-734-3682
Located 14 Miles South Port Royal on Rt. 75

DISTRIBUTOR OF CENTRAL TRACTOR PARTS CO.

LANDIS BROS., INC

1305 Manheim Pike, Lancaster, PA 17601
Phone - 717-291-1046

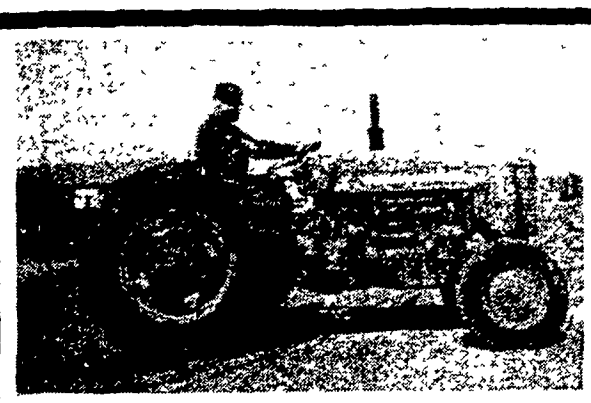
JOHN DEERE DESIGN, DEPENDABILITY AND DEALERS MAKE THE DIFFERENCE

SPECIAL JD FP WAIVER PROGRAM ON NEW JD ROW CROP AND UTILITY TRACTORS UNTIL 6-1-82

JDFP WAIVER PROGRAM ON NEW JD & USED CORN PLANTERS UNTIL 4-1-82

CHECK THESE SPECIALS — CALL RIGHT AFTER 7 A.M. FOR INFORMATION & PRICES

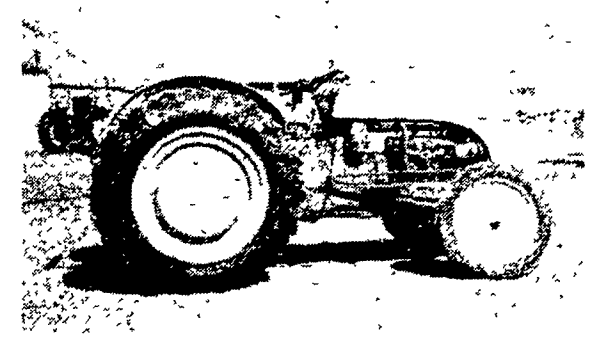
SPECIAL JD FP WAIVER PROGRAM ON NEW JD SNOWMOBILES UNTIL 4-1-82
NEW JD 200/300/400 SERIES LAWN AND GARDEN TRACTORS UNTIL 3-1-82



MF 65 UTIL. DSL.
$3900

SAVE NOW ON THESE USED TRACTORS

WITH NO FINANCE CHARGES UNTIL MARCH 1, 1982



FORD 9N
$1150

New Tractors

JD 4640 PS, SG — JD 2440
JD 4440 PS, SG — JD 2240
JD 4240 Quad, SG — JD 2040
JD 2940
JD 2640

Used Tractors

JD 2240 200 hrs.
JD 4320 w/cab
JD 1020 Ru Gas w/37 loader
JD 40T
MF 65 dsl.
IHC Cub w/mower

Used Loaders

JD 46A loader

New JD Utility Tractors

JD 750 w/MF WD w/375 Blade
JD 750 Turf T w/272 Mower
JD 650 Turf T w/160 Mower

MERRY CHRISTMAS

New New Idea Uni-Equip.

743N 3 RN corn head
713 grain platform

Used New Idea Uni-Equip.

702 dsl. power unit w/cab
705 dsl. power unit w/cab
767 super chopper
768 w/N3 row RC
769 flail mate
762 2R 30" RC

Used Spreaders

NI 206 Gr. drive
NI 207 PTO
NH 327 PTO
JD 54 PTO
NI 213 w/Endgate
NI 214 Flail
NI 218 8½ ton w/Endgate
NI 224 10 Ton w/Endgate

New Corn Pickers

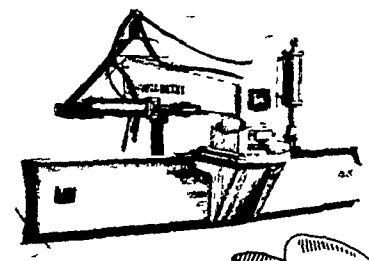
NI 325/327 2-row
NI 323 1-row

New Rotary Cutters

JD 506 5' util. 3 pt.
JD 606 6' util. PT

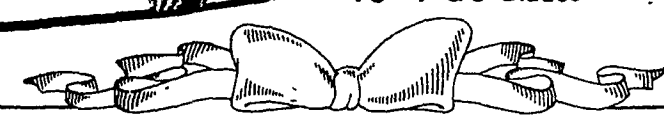
Used Combines/Corn Heads

JD 7700 w/14' plat.
JD 6600 hydro. w/13' flex plat. & 643-6RN head
JD 444 corn head



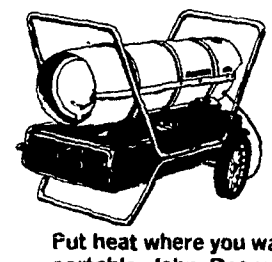
NEW JD REAR MTD BLADES

Model	
115	9' Extra Heavy Blade
115	8' Heavy Blade
65	7' & 8' Blades
88	7' & 8' Blades
78	7' & 8' Blades



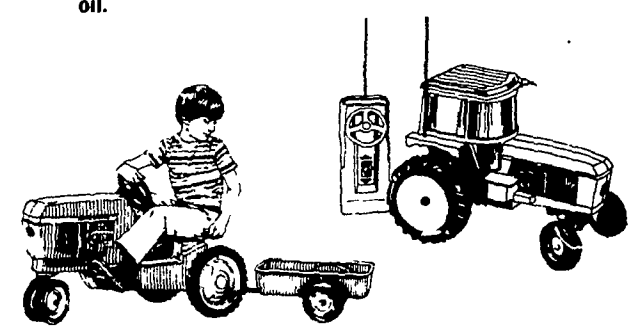
Stuck for gift ideas?

SAVE UP TO $91.99 DURING JOHN DEERE'S FALL VALUES SALE



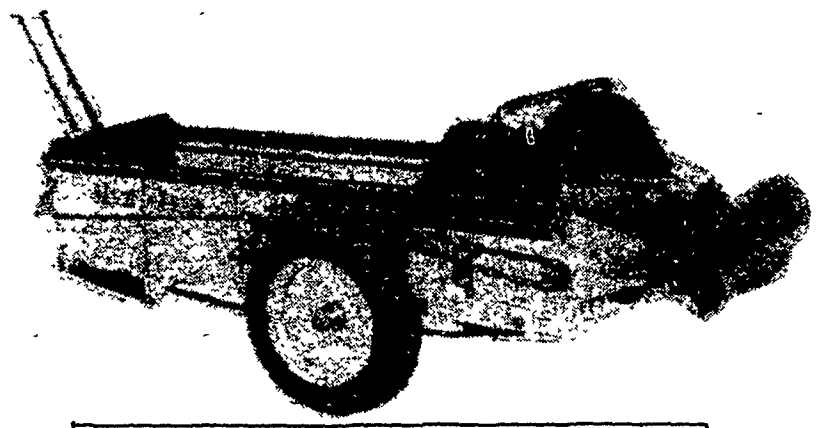
Priced From
$239.95

Put heat where you want it this fall and winter with a portable John Deere Space Heater. Choose from three heater sizes — 50,000 Btu, 90,000 Btu, 150,000 Btu. All burn kerosene or No. 1 or No. 2 fuel oil.



John Deere Farm Toys
Blueprint Replicas™ that work hard to tackle any chore. Die cast with fine detail and ERTL's famous strength and safety features.
Check Our Low Prices

NEW IDEA 95 BU. GROUND DRIVEN SPREADERS



206 New Idea Spreader Available With or Without Steel Wheels For Shipment NOW Order Yours Today.

CALL FOR SPECIAL PRICES

SPECIAL PRICES ON USED SNOWMOBILES

	Was	Sale Price
J.D. '79 Spitfire w/cover	$1250	$995
J.D. '77 440 Liquifire w/cover	$1695	$1395
J.D. '76 340 Cyclone w/cover	$1145	$995
J.D. '74 600 w/cover	$950	$795
J.D. '73 400 w/cover	$795	$675
Polaris '76 TX340 w/cover	$925	$795
Scorpion '72 440 Stinger III	$450	$295

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Phone -717-291-1046

case

Leyland 272 Tractor w/Loader, Low hrs.
MF 255 Tractor, Low hrs., like new
JD 3020 Tractor, Late Model, Nice Shape
Case 1070 Tractor, Power Shift, Nice shape
1977 NI 709 Uni System, 1100 actual hours, air, heater, cab. Traded for larger unit.
Plus NI cut/ditioners & mow/ditioners, tractors in stock at Good Prices.

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Ask for Paul

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10% to 20% SALE
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— HYDRAULIC SUPPLIES —
Pumps • Motors • Valves • Cylinders • Hoses • Fittings • Tanks • Log Splitter Components
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BEILER HYDRA-MATICS
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Welding & Machine Shop
UPS Service

IH Badger OMC AVCO NEW IDEA

TRACTORS
IH 2500 Industrial Tractor w/Loader
IH 706
IH 674 D
IH 656
IH 606 D
IH 574 D
IH 434
IH 400
IH 350
IH 330
IH 300
IH Super MTA
IH Super C
David Brown 995D
Case 800 D
JD 820 D
MF 165 D
MM 55 for
Gehl #M6
Bobcat M600
JD 70

TILLAGE
IH 710 4x16 Plow
IH 710 5x18 Plow
IH 735 5x18 Plow
IH 700 4x16 Plow
IH 710 3x16 Plow
Kasco Chisel Plow
Ford 3x16 Plow
IH 311 3x14 Plow
IH 45 Vibra Tine Cultivator
MF 4 Row Cultivator

PLANTERS
IH 400 6 Row no-till
IH 400 4 Row no-till
JD 1240 Row
IH 449A 4 Row
JD 290 2 Row
IH 56 4 Row
IH 440 Baler
IH 46 Baler
NH 269 Baler
NH 69 Baler

FORAGE HARVESTERS
IH 830 3R Head and Pickup
IH 650 2R Head and Pickup
Fox 3000 2R Head and Pickup
IH #16 1R Head and Pickup

20% DISCOUNT ON TOYS

FORAGE WAGONS
Badger 1410
Gehl BU 85
AC
NH #8
NH #6
VanDale 185 Mixer Wagon w/Scales

MOWER CONDITIONERS
IH #225 SP
IH 990
NH 479
Hesston 1014
OMC 216
NI 270
IH 15 Rake
IH 35 Rake
JD Hay Tedder
Farmhand Windrow Turner
IH 100 Sickle Bar
IH 1000 Sickle Bar
Ford 14-9B Sickle Bar
IH 28 Rotary Mower

NEW IDEA UNI
705 w/Super Chopper and 3RN C.H. and Hay Pickup
702 w/Combine
729 A Shelter
737 Husking Bed
726 Husking Bed
NI 744N Corn Head
770 Feeder House
741 Feeder House
724 3RW Corn Head
NI 324 Corn Picker
NI 325 Corn Picker
Oliver #5 Corn Picker
IH 234 Corn Picker
IH 205 Combine
IH 303 Combine
IH 715 Combine

MANURE SPREADERS
NI 213
NI 214
NH 202 Ground Drive
NH 676
IH 580
Better-Bilt 10' Vertical Pump
Badger 102 8' Vertical Pump
IH 2000 Loader
IH 2001 Loader
Jamesway 60' Feeder Excellent

FLAIL CHOPPERS
Brady 722
Brady 608

2% Cash And Carry Discount on All Parts
The Place to Buy New & Used Equipment
CHAMBERSBURG FARM SERVICE, INC.
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Phone: 717-264-3533

Ag-Industrial Equip. Co.

ANNUAL
WINTER SALE OF NEW & USED FARM EQUIPMENT
WEDNESDAY, JANUARY 27 - 10:00 A.M.
BLIZZARD DATE JANUARY 29, 1982

ALLIS-CHALMERS SPERRY NEW HOLLAND

KUBOTA AVCO NEW IDEA Bullion CRUST BUSTER

TRACTORS
IH 706
AC 180 w/loader
AC 5050 w/loader
(2) AC 7000
White 2-105
MF 165 w/loader
MF 20 Tractor/Loader
JD 4020

SPREADERS
NH 362 Tank
NH 365 Tank
NH 368 Tank

MOWER CONDITIONERS
NH 1469 w/Ford engine
NH 495
(2) NH 279
(2) NH 479
NH 478, Excellent
(2) NH 1495 12' SP

FORAGE HARVESTERS
NH 1895 w/4R Head
NH 880 w/2RW & WPU

Large Parts Inventory and Modern Shop Facilities with Factory trained Specialists to serve You Better.

BALERS
NH 320 w/thrower
NH 268 w/thrower
NH 269 w/motor
NH 273 w/thrower
NH 275 w/thrower
AC 303

MISCELLANEOUS
NH 1000 Bale Wagon
NH 1012 Bale Wagon
NH 1010 Stack Line Wagon
Howard Rotovator
MC 9E Rotary Scythe
JD 750 Grinder- Mixer
Farmhand F85B Grinder-Mixer
Vicon Disc Mower
NI Rake
NH 36 Crop Chopper
(2) NH 258 Rakes
JD Elevator
NH 155 Elevator
AC 2300 Disc

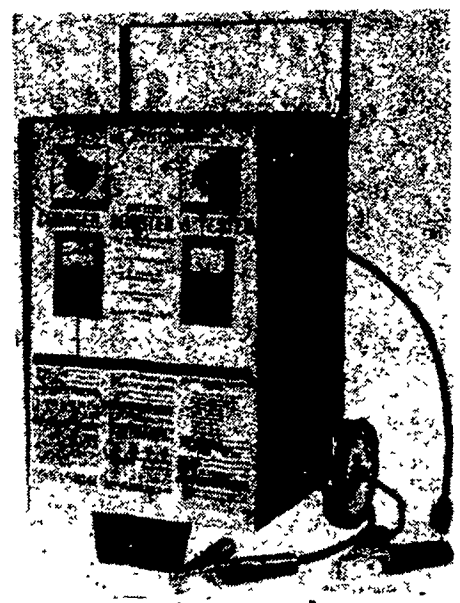
CORN PLANTERS
AC 600 4R w/dry fert.
AC 600 4R w/liquid fert.
AC 6R no-till
JD 1400
IHC Cyclo
White 6 Row No till

SKID LOADERS
NH L-35
NH 775 Gas
NH 775 Diesel
NH 425 Rental

COMBINES
AC All [illegible] 3R w/10' Platform (SOLD)
NH 995 w/15' Platform
JD 105 w/444 Corn Head & Grain Head

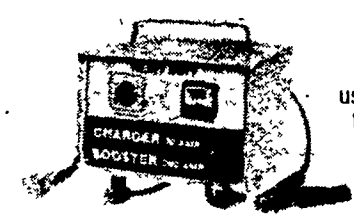
Sales Department Call Ed Greenleaf
Service Call Terry Greenleaf
1207 Telegraph Road, Rt 273 Rising Sun, Md
301-658-5568 301-398-6132
215-869-3542
Immediate Financing
Hours Mon. thru Fri. 8 to 7 Sat. 8 to 4
CLOSED SUNDAY

Swope & Bashore, Inc... Your IH PARTS MART!



80-amp battery charger, booster and tester only
$189.95 Save $81.74
- Charges to 80 amps, boosts to 300 amps.
- Tests alternators, battery charge; 7 other tests.
- Exclusive dual meter design.
- Timer.
- Rugged construction.
- Part number, 1131 855 R1.

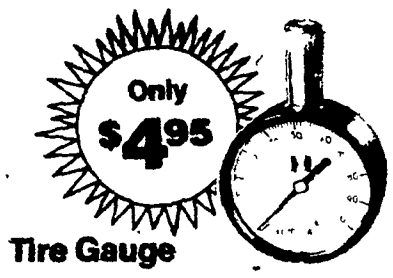
There's plenty of room under your tree for an IH Battery Charger
SAVE 25%
10-Amp Charger
This household and utility 10-amp charger is an excellent choice for home and farm 407 389 R91.
Special Price $44.95 Save $14.79



30-amp heavy duty charger with booster
Perfect for farm or home use. Fast charge 30 amps, trickle charge 5 amps To get going fast, boost delivers 200 amps.
407 391 R92
Special Price $99.95 Save $41.31

A splendid way to play Santa . . . with a battery booster cable.
- No-tangle color coded 12-ft cables and clamps
- Copper plated steel jaws All copper wire
- Insulation flexible to 70° below
- Part no 549 293 C92

Special $16.49 Save $5.51



Tire Gauge

Utility Light
Handy for hundreds of uses, this light features directional swivel hook, vented high heat polypropylene bulb guard, safety switch button guards with built-in three-wire grounded outlet, comfortable finger grips, 25-ft cord
1131 503 R1
Special $9.95
Save $1.00

WINTER SPECIAL ON OVERHUALS
CALL FOR A FREE ESTIMATE.

SWOPE & BASHORE, INC.
PHONE: 717-933-4138

RD 1, Myerstown, Pa.
Located 1 Mile S. of Int. 78 & 6 Miles N. of Myerstown on Rt. 645 in Frystown
Area Codes 215 & 717
Call Toll Free 1-800-692-7467

FARM EQUIPMENT

For Sale - Oliver 550 gas with good rubber. 717-733-6717

JD 3010 diesel, very good condition; also, JD 4020 diesel, wf, side console, very good condition. 717-532-7054

Combine, 3300 JD, 422 hrs., looks like new. 814-926-3669

FARM EQUIPMENT

For Sale - MF 1100 Diesel Tractor, MF 65 Gas Tractor 717-587-2659.

Wanted - MF 35 combine, must be in good condition. 215-536-9672.

'68 White T-A dump, 220 Cummins 15 R/R, P/S, A/B runs good. $4500 or best offer. Call 301-838-1470 or after 6 call. 717-456-7497.

FARM EQUIPMENT

Wanted - the following equipment, heavy; disc harrow, 12' or larger, transport grain auger, gravity grain wagon, 5/8" high pressure hose. 215-257-9286 after 7 p.m.

For Sale - Int. 710 plow 5x18 automatic reset, gauge wheel. Also Int. 400 snow blade 7'. Berks County. 717-866-4286.

FARM EQUIPMENT

1-New, Gehl MX135 Hyd. Feed Mill, SAF, HA PTO, 12' unloading auger, Must sell this month-List $9867, straight out $8395. Chas. J. McComsey & Sons, Hickory Hill, PA 215-932-2615

For Sale - Farmall 460 gas tractor N.F., fast hitch $2200. or best offer. Lanc. Co. 717-859-2421

FARM EQUIPMENT

Leyland 384, 1800 hrs. excellent. Case 1412 like new., IH 300 low profile. IH 12' haybine, pull-type. Dion forage wagon. Dion running gear 12 ton 20" tires. 717-942-4244

For Sale - Int. 806 diesel, 3 pt. wide front, 18-4-38 rubber. 215-683-5283.

FARM EQUIPMENT

IH tractor 1086 w/20.5x8 duals factory, cab and air conditioning, good condition, asking $15,500. 18' Taylor-Way disc, hydraulic wings w/Agro-Tech sprayer and Midwest harrow, asking $4,500. Call evenings 301-259-2580.

FARM EQUIPMENT

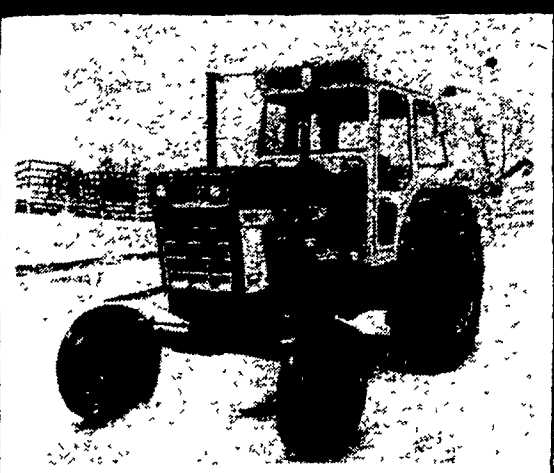
2 JD sidehill combines. 717-225-1469 from 7 A.M.-5 P.M.

3 beater NI Manure Spreader; 1080 MF tractor; Wood saw for tractor, all in excellent condition. Franklin Co. 717-328-2458

LONG WENGER'S INC. LONG

SOUTH RACE STREET
MYERSTOWN, PA 17067

DAYS: 717-866-2135
PHONE:
NIGHTS: 717-866-7147
OR: 717-273-9089



1468 INTERNATIONAL CAB
2 Remotes, Dual P.T.O. - 20.8x38's
2700 Hours - Twin Turbo's
- Nice & Original
$11,500

TRACTORS

OLIVER
2050 ..... $6000
1950 GM $6500
1855 - Cab... $10,000
1800 - 4WD ... $5900
4 WD Front End only $1475
(2) 1650D .. Coming In
1800D ..... Coming In
1750D ..... Coming In

JOHN DEERE
4430 Cab ... $16,500
4020D $7800
3020D $6500
820D $2900
MT $1350
4020 Gas $5500
(2) 5010 Choice $6500
4230 - Cab... $14,500
430 w/Loader .. $3500
4520 - Nice $9800
4320 w/Lid . Coming In
(2) 620 .... Coming In
4230 Powershift - 4WD ..... Coming In

LONG
N 610DT $10,900
N 560DT $8700
560DT $4750
N 310 ..... $6500
N 310C $6500
460 DT w/Loader $6900

CASE
1370D $10,000
930DCK $4500
1470D 4WD - Cab $12,000
(2) 930D CK - Standard $2800
(2) 830D CK ... $4500
930 Standard .. $1500
1070 w/cab. ... $7000
1410 - 600 Hours $10,750
1200 4WD $6000
2670 w/Cab - 3 Pt. P.T.O. ..... Coming In

ALLIS CHALMERS
220D $6000
170D $5200
WD-Wide Front. $1200
D12 ..... $1700
WD45 ..... $1200
190 XT $4250
D19D w/3 pt. .. $3800
D21 Series 2 .. $6900
190XT - Cab & Duals .... Coming In

MASSEY FERGUSON
1155D $7500
1150D $6500
1105D w/Duals $8500
175D $4500
T030 ..... $1175
MF 50 ..... $2500
MF 35 w/Ldr ... $2500
65 Diesel - PS .. $2800
1130 w/Cab Coming In

FARMALL
1086D $13,500
1466D Cab .. $13,500
806D $4650
706D German . $6500
(3) 706D $4000
(2) 706G $3250
656D $5800
856 w/cab. ... $9250
856 ..... $8850
806 w/cab & duals $8000
(2) 340 w/Loader $1700-$2800
2400 w/loader . $6500
404 w/Mower .. $3500
1468 w/Cab. . $11,500
966 w/Cab . Coming In
560D ..... Coming In

FORD
(2) 9N .. $1100-$1600
(2) 800 ..... $2000
9N w/Ldr. $1950
3000D - Nice .. $5450
3000 Gas - PS - Nice $4850

LOTS OF SMALLER AND OLDER IH TRACTORS

A.C. MACHINERY
770 4X No Til Planter $2900
Cll Combine Cab $650
Roto Bar Rake .. $800
3XSC Plows $150 & Up
720 Chopper w/2x30 & P.U.. $1850
"G" Snow Plow.. $200
Extra Chopper Heads

M.F. MACHINERY
3X Rollover Plow $1250
35 Combine - Pull Type $2500
1150 Cab - New $1850
1085 to 1155 Cab - New $2250

OLIVER & WHITE MACHINERY
1750 Cab $500
Rollbar w/Roof .. $675
4WD Front End For 1850 ..... $1475
285 Field Cult - Pull - 18' $1875
254 - 10' Wheel Disc $1200
252 - 12' Wheel Disc $1350

CASE MACHINERY
5X Reset Plow . $4900
1030 Cab - New $1850
Extra Chopper Heads

I.H. MACHINERY
720 5x20 Reset Plow $5000
700 6x16 Reset $2800
203 Combine w/2 Heads $1975
403 Combine Cab w/Air $1000
(3) 234 Sheller Units $950
645 Fieldcult - Pull 19' $1875
F.H. Field Cult - 12' $695
2X Cult - From .. $100
53 4XFH Cult ... $800
53 4X 3 Pt Cult. $1200
2XFH Plows $400 & Up
4XFH Plow $350
Rollbar w/Roof .. $675
555 Chopper ... $750
Cub Spreaders From $500
18' Wing Disc - Rebuilt $3900
13'6" W Disc - Rebuilt ... $1800 & Up
12' W Disc Rebuilt $1800
11' W Disc Rebuilt ... $1600 & Up
8' FH Disc $750
5' Cub Disc From $350
480 25' Wing Disc $3900
#10 - 17 S.D. Drill $1800
2XFH Planter ... $400
Cub Snow Plows ..... $195 & Up
Extra Chopper Heads

NEW HOLLAND MACHINERY
354 Mill $3850
352 Mill $2850
(2) 850 Round Baler . $4500 & $5250
479 Haybine... $3000
477 Haybine... $1500
23 Blower $450
890 Chopper .. $3800
707 3 Pt 1 Row Chopper $1800
(35) Extra Harvester Heads
258 Rake $1875
Tandem Spreader $2850

FORD MACHINERY
3000 Rollbar .. $275
3000 Cab $775
354 4X Planter . $2500
4X Planter $1000
2X3 Pt. Cults ..... From $250
2X3 Pt. Plows ..... $395 & Up
3 Pt. Sickle Mower. $495
3 Pt. Flail Mower $695

N.I. MACHINERY
Late 325 - 12 Roll $5500
325 - 8 Roll & Sheller $5500
Late 324 w/Sheller $4800
319 w/12 Roll .. $3000
311 w/Sheller .. $1650
331 w/Super Sheller $2950
12 Roll Bed for Pull $2850
(3) Mtd. Grinders $750
Pull Grinder ... $1675
(2) Mtd. Shellers . $950
(4) Pull Shellers. . $300-$1000
Pull Super Sheller $1650
18 Spreader $875

J.D. MACHINERY
336 Baler & Ejector $3900
1209 Haybine. . $1500
2500 7X18 on Land Reset Plow $6000
1450 6X18 Plow $3350
(2) 1450 6X16 Plow .. $2150 - $2950
(2) 2600 4X Reset Plow (New) $5500
40 4X3 Pt Cult .. $395
RG4 4X3 Pt Cult. $895
(10) 2X Cult . $75 & Up
(2) 22' Hyd. Wing Field Cult - 3 Pt. $1750
19' Field Cult w/Wings - 3 Pt... $895
(2) 290 2X Cornplanters ... $495
2X Potato Planter $500
8' & 12' Lime Drill $300
5X16 Pull Plow .. $850
(2) 3X16 3 Pt. Plow ..... $475-$775
2X Pull Plows ..... $100 & Up
#5 Fodder Attach For Baler $495
55 P.T.O. Table Blower $350
38 Chopper $750
(2) 40 S.P. Combine $1600
(2) FBB 17 Disc Drill ..... $950-$1850
Van Brundt 17 Disc Drill $950
KBA 24-28-32 Disc's ..... $295 & Up
Tedder $195
Cab For 45 Combine $650
(2) 43 Cornsheller ..... $200 & $500
(25) Extra Harvester Heads ..... Call
Air Cond. for 33-44-66 Combine $675
7000 6X30 Planter Loaded $9850
214 Forage Wagon $1750
Lots - Lots More Not Listed

FOR SALE I & T TRACTOR SHOP MANUALS FOR OLDER & NEWER TRACTORS

CONSTRUCTION DUMPS
(2) 1974 IH & Ford Diesels w/9' Bodies - Air Brakes... $13,900

CRAWLER LOADERS
Cat 941 ..... $16,900
Cat 933 ..... $8750
(2) JD 350 ... $6500-$7500
JD 450B w/9300 Hoe.. $15,900
Oliver OC3 .... $1500

NI UNI SYSTEMS
701 Tractor w/cab
727 Husking Bed
2x40 Cornhead
3x30 Cornhead
Combine
Grainhead
3x30 Chopper Head
Pickup Head
High Moisture Throat
2x40 Chopper Head
3x40 Corn Head
705 Diesel w/cab - nice
760 Chopper
4x30 Corn Head

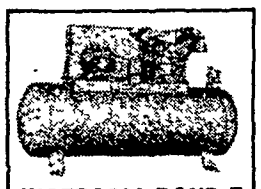
MISC. MACHINERY
Long 10' Offset. $3900
Wilbeck 12' Offset $4500
Bearcat 12' Culti-mulcher $2800
Knoble 14' Wing Harrow - 3 Pt ... $875
New Speeco 6'6" 3 Pt. Disc $495
New Round Bale Feeder $175
7'-10'-14' 3 pt. Spike Harrows... $395 & Up
Long Rollbars... $300
New Brute 8' 3 Pt. Blades. $695
Waldon 10' Snow Plow $2500
Nesseth P.T.O. Manure Pump.. $3500
Mayrath 32' Elevator $650
Glenco 12' Pull Field Cult. $1675
Glenco 9' Soil Saver $3300
Meyers 6' Snow Plow $395
Danuser P.H. Digger $595
F.M.A. Tedder & Rake $1000
Hesston 10W Mover $600
Servis 14' Rotary Mower $1500
Gehl 9' Haybine $1250
Terrain King 15' Wing Rotary ... $1950
Danuser P.H. Driver $395
Brillion 11' Seeder $1800
(2) 1X Potato Digger .... From $500
Brady 2X Stalk Chopper $350
Brady 4X Stalk Chopper $1350
MM D Cornsheller $675
Hutchmaster 13' Offset Disc $4500
Athens 5' 3 Pt. Chisel Plow..... $550
Athens 11' Pull Chisel Plow $1395
Assorted 1X Cult & Plows
Assorted Side Dressers
Spike Harrows ... Call
Spring Harrows .. Call
Swartz Mixer Wagon $1850
Corn Drags From $400
New 6' 3 Pt. Landscape Rakes $495
New 2x3 Pt. Plows $450
New 1200 Bu. Corn Cribs..... $795
Woodsaws . $500 & Up
New Landscape Boxes..... $350 & Up
165 Gravity Bins $450
230 Gravity Bins $525
Dunham 16' Mulcher $2250
Dunham 10' Mulcher $685
B.H. 2 x 3 Pt. Planter $200
New 3 Pt. Seeders $395
EZ 16' Box 3 Beater & Roof - No Gear . $2500
Lamco 16' Box - 3 Beater & Roof - No Gear $2400
8 Ton Gears $550
10 Ton Gears ... $625
12 Ton Gears ... $975
(30) Sets of Duals
Lots of Harvester Heads To Fit All Makes

4230 JOHN DEERE CAB, AIR, RADIO
- 2 Remotes - Quad - Diff Lock -
3800 Hours - Nice Original Tractor
$14,500

TRAILERS
1969 Great Dane 35 ton detachable .. $15,750
New HD10 2½ ton $1650
New HSE14 4 ton $1275
New HSM14 6 ton $2000
New HSL14 6 ton $1950
(3) New HTR16 8 ton $2950
1976 Gooseneck 3 axle w/tilt top .. $4800

MISC. CONSTRUCTION
Davis DH5 trencher New Diesel .. $13,500
(6) Sweeper attach. From..... $95
(40) Used hoe buckets ... From $150
(25) Loader buckets .... From $95
(8) Set forklift forks ..... From $300

TRUCK TRACTORS
(2) 1974 Ford Louisville Diesel $8650



INGERSOLL RAND 5 HP AIR COMPRESSOR
2 cylinder - single phase - 80 gal tank
used 3 month
$1850.00

BACKHOES
Long 3 pt. Hoe-new $4500
Long 5 in 1 w/cab..... $17,500
(2) JD 310 ..... $11,500
Ware-Hoe Attach..... $2750
Case Hoe Atach $2750
JD 9300 Hoe Attach.... .. $5500
3 Pt. Backhoe.. $2400
IH Hoe Attach.. $1800

ROLLBACKS
1968 Int. Diesel - 24' $7500
1976 Ford Louisville Diesel - PS - 5 & 2 - 24' Rollback Nice $23,750

COMBINE CORN HEADS
NARROW ROW
IH 833-743-733-429-329
JD 643-443-343-434-334-313
AC 630-430-330
Oliver 703N-541-531
MF 63-43-33-421-321
NH 4x30 QT
Case 4x30-3x30
NI UNI - 3x30 - 4x30
WIDE ROW
IH 744-429-329-327-724-229-228-227-25-22
JD 434-334-234-210-205-10-344
AC 440-435-240-238
Oliver 544-531-522-512
MF 44-24-422-322-222-22-20
NH 2x40
Case 4x40-2x40
NI UNI 3x40-2x40

SKID STEER LOADERS
Case 1740 Diesel $6800
Melroe 500.... $3500
OMC $3500

WE LEASE TRACTORS & MACHINERY

DUMPS - FARM
1974 Ford Louisville 18' Omaha Dump w/Cattle Racks Diesel $14,950
(2) 16' Steel Dump Bodies - Complete - Excellent..... $4000

LOG SKIDDERS
Franklin 133B w/Log Loader $6250
JD 440B $8750

FORKLIFTS
Ford 30' Diesel $11,500
JD 2010 ..... $5000
Int 340 ..... $4500
Yale 3000 Lb... $3500

COMPLETE RUNNING GAS & DIESEL ENGINES
50 On Stock - Call

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MF 35 Diesel tractor, good condition $2300 301-829-0271

Ford Tractors Equipment

NEW FORD TRACTORS

3600	5600

FORD TRACTORS

8N	2600
Jubilee	3000
850	4000
971	5000
2000	5600
6700	

New Ford Compact Loader
Clark Fork Lift
JCB Tractor Loader Backhoe
Wheel Trencher
KD Fork Lift
Model 452
Ford tractor Loader backhoe
Model 4500
JD 3020 w/loader & backhoe
Ford Snowblowers, 2 h.p., Special $261
5 h.p., $494,
8 h.p., $773,
IH 2 hp. $296,
8 h.p., $825,
Hanson, Kubota International, Ford, McKee Snowblowers front Mounted, 3 pt., blades, limited supply.

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Dover, PA 17315
717-292-2631
717-292-4443

Hundreds of Wheel and Crawler Tractors, Ford 7000, 8000, 9000, 6000, 5000, 4000, Jubilee, 8N and 800 JD 4020, 4010, 3020, 2010. Farmall 1468, 2606, 1206, 806, 856, 706, 656, 544, 460, 400, 300, 240, MHA Cub and C MF 1130, 1100, 1080, 180, 165, 90 AC 190XT, 190, D19, D17, D14, CA B G loader Oliver 1955, 1850, 1800, 1650, 2150 Case 1030, 930, 830, 800 Deutz 10006, 5505, 5005 Moline, David Brown and Cockshut, tractors w/loaders, backhoes, skid loaders, pay loaders, forklifts, trenches, rollers, road grader, stone rakes, snow plows and blowers, rotovators, large selection of mounted pull and rollover plows, cultimulchers, cultipackers, disc harrows, chisel plows, PTO and ground drive spreaders, roller mill w/mixer, field cultivators, corn shellers, lots of 3 pt equipment, 5020 JD tractor only $6900, 445 Long 4 wheel drive tractor, D9G Caterpillar w/blade for pan, hundreds of tractors and plenty of other equipment not listed.

KEENER EQUIPMENT INC.
Intersection of Rts. 72 & 283
Lancaster, Pa. 17601
Phone: 717-569-9861

FARM EQUIPMENT

JD 630 Tractor 3 pt excellent condition $2750 or best offer Also 3 pt Vanguard wood splitter, 2 months old $600. or offer 301-795-9631

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Looking for a bargain? 4214 convertible Slurrystore with DeLaval Sahlstrom P.T.O. pit pump and over-top agitation Includes 3,250 gal Calumet liquid manure spreader with injectors. Take over balance of lease payments. 7½% interest. Call 717-354-4051 Penn Jersey Harvestore Systems, Inc

For Sale - GRANGE SILO, new Hydraulic pressed concrete stave, manufactured by Corostone Silo Co., Box 156, South Montrose, Susquehanna Co. Pa. Write or Call plant 717-278-3045, NY office at Weedsport, NY 315-834-9200, Service Rep for SE PA Ralph Estelle, Manheim, PA 717-665-7105.

MADISON SILOS & VANDALE EQUIPMENT
717-653-1567

We buy used Harvestores and sell with Laidig unloaders. Penn Dutch Farm Systems, Inc 717-273-9324

S & S SILO REPAIR COMPANY - Most any kind of silo work, new chutes, new roofs and roof repairs, some extensions, moving silos. Also buying some used silos Installing pipes and spreaders We sell Jamesway, Starline and Van Dale unloaders. For Sale - 18x65 Stave Silo. 717-768-3052.

20x60 expandable, blue top Harvestore w/Hercules unloader, new steel floor, new breather bags & new bolts. Call Penn Jersey Harvestore Systems, Inc. 717-354-4051

We buy & sell used HARVESTORES. Penn-Jersey HARVESTORE Systems - Tel. 717-354-4051

Used Harvestore Silos bought and sold. 20x70, 20x80 Hercules Goliath sweep-arm unloader 717-442-8104

SILOS & UNLOADERS

Van Dale 10' silo unloader in fair condition Call 717-653-1555

Jamesway 16' silo unloader $1400. Clay electric silage cart $1100 609-451-7463

1980 all purpose 20 x 32 expandable, white top Harvestore w/Hercules unloader. Like new Inclused electronic forage weigher & supplement meter. Call Penn Jersey Harvestore Systems, Inc., 717-354-4051

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2008 HORSESHOE ROAD
LANCASTER, PA
CONCRETE STAVE SILOS
— SILO REPAIRS —
TAPER BOARD FEEDERS
BELT FEEDERS
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NEW & REBUILT SILO UNLOADERS
BARN & FEEDLOT EQUIP
RITCHIE WATERERS
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Silo Relining & Repairs

Extensive tests have been conducted on Gunite. Below are some of the properties of Gunite:

1. **Excellent bonding**
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The excellent physical properties of the material are due to the water content being only the amount needed to satisfy chemical hydration.

Reseal and re-strengthen your silo with *Gunite*.

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DETWEILER SILO REPAIR
RD2, Newville, PA
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717-423-6791

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1 slightly used professional silo jacking system. Can be used w/A.O. Smith Harvestore or S.P.I. Sealstor structures. Both erection & teardown.
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U S Wrecking dismantling enclosed structural steel grain drying tower, 15x10x90', steel cup conveyor lift belt, 22 cu. yds. 3/8" steel storage bin. 717-393-2992

Wanted - automatic batch or continuous flow dryer. Also grain leg at least 65' and wet holding tank in 2000-3000 bu. Must be in exc. condition, single phase electricity. 703-594-2709

BUILDINGS & SUPPLIES

CYPRESS LUMBER for sale, A & A Mushroom Supply Co., Rt. 7, Avondale, Pa. 215-268-3128

For Sale - Peach Bottom slate 9x14 717-755-3151

Will trade - 20" jointer for thickness planer. 215-252-6665.

For Sale - lg. wooden barn, 50x75', never painted, slate roof, you remove, make offer. Harford Co., MD 301-836-3782

10 pieces, 3/4"x4'x10' plywood $20 each. 20 100 lb steel grates 2½"x15"x30" $20 each. 2 Kawneer all aluminum and glass door and frame $50 each. Western 1 bag mortar mixture $300. 4 baseboard heaters 3000 watts 250 volts 20"x5' $25 each. 2 Everwarm unit heaters 3 phase 10KW $75 each. Lebanon County. 717-865-6860 after 3 P.M.

SAVE 25%

CUSTOMER CANCELS
SISSOR TRUSS
100' BLDG.
44' SPAN
6:12 PITCH
IDEAL FOR CHURCH OR COMMUNITY BLDG.
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SILOS & UNLOADERS

SILOS AND EQUIP.
SEE PAGE C4

TERRE HILL SILO CO. INC.
Terre Hill, PA 17581
PHONE: 215-445-6736
53 Yrs. Sales Serv.

DAIRY EQUIPMENT

For Sale - Kraiburg Happy Moo-Mats. 15 sizes. We deliver and install. Vanco Sales, RD 4 Box 300 Carlisle, PA 17013, Phone 717-776-3494

Wanted - 4-6 can milk cooler, front load and clean separator, 100-150 gallon bulk milk tank and stainless steel milk cans 215-857-3463.

1250 gallon White Surge tank w/preheater, two 3HP compressors, 82 gallon electric water heater, Bou-matic pipeline for 32 cow barn 2" glasslined 8 units. Two 5HP direct drive pump. All equipment like new. Supreme mixer w/5 HP motor. 717-898-8736 after 6 p.m.

Having sold herd the following milk equipment is for sale: 1000 gallon Sunset tank and 2 compressors, 1000 gallon Surge tank and 2 compressors, 20' Grirton precooler pipe and ice builder, Hot water pre heater, Double 8 DeLaval Herringbone parlor, 16 units, 16 weigh jars, 16 200 control boxes, 2 5 HP 77 vacuum pump, milk pump, 16 feeders, in place washer. This has been an operating parlor until Nov. 24, 1981. Call 201-832-2157

4 Surge Pail milkers, 2 DeLaval pail milkers, 1 dumping station complete, stainless steel double wash tub. 814-793-2339

Five Metal calf stalls, elevated slatted floors, also metal cattle rack for pickup. 717-687-6035.

For Sale - 500 gal. Mueller bulk milk tank with washer $1400. 215-598-3219

For Sale - Sputniks, new and used, DeLaval milkers with 55 lb. pails, 2 600 gal. Girton tanks, 1 with 5 hp compressor, twin tubs and wash mats; Bender teat cup washers. Elam Stoltzfus, RD 1, Box 91, Kirkwood, PA 17536

For Sale - Surge high volume tube cooler. $400. 814-623-2603

Electric grain cart, Vebler model GM15, electronic scale, charger, excellent condition. Chester County 215-458 5023

8 - Bou-Matic pipeline milker units with California Style shells and inflations
8 - stainless steel Bou-Matic unit washers
8 - Bou-Matic electric stall cocks
6 - Bou-Matic pipeline milker units with regular shells
1 - timer converter board
4 - Model 100 Sentinel vacuum regulators
2 - Model 50 Sentinel vacuum regulators

Witmer Implement Service
DeLaval Dairy Equipment
1896 Bedford Road
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PH: (717) 532-6139

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Grain bins, hopper tanks, drying bins, augers, leg elevators & aeration fans.
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Fallston, MD
301-557-7529 or
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For Sale -- Cream Separator Hand operated 90 qts. per hr. 2 only $350.00 each
J.B. Zimmerman & Sons
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Wanted - Good used can milk cooler. Prefer 12 can cooler. Contact Homer Coblentz, RD 1, Box 235, Meyersdale, PA 15552

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Patz barn cleaner parts, elevator unit and motor, 15" elevator. 814-239-2593

Wanted - Used pipeline 1½", prefer glass for 40 cows complete or would consider just the line. Lancaster Co. 215-445-4661.

4 Starite weigh jars 65 lbs., DHIA approved. 717-374-4948.

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Alley Scrapers
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Computerized electronic controlled individualized feeding.
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Plate Coolers
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USED DELAVAL 1½" GLASS PIPE MISC. STRAIGHT LENGHTS AT 30% OFF CURRENT LIST PRICE.

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Madison — Long Mfg. Co.

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1 Demonstrator Badger vacuum spreader tank, 1500 gallon
1 used Huskey spreader tank, 3000 gallon
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2 new DeLaval manure stirrers
1 new DeLaval Satellite feeding station w/2 stalls, (returns $2 for each $1 invested)
2 DeLaval #78 vaccum pumps w/free servo-regulator plus $100 rebate from company

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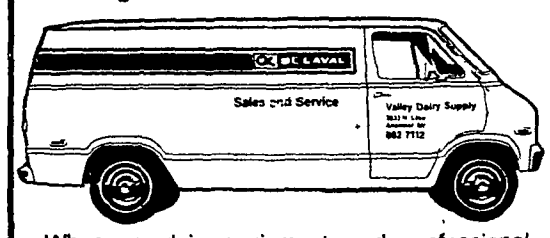
We have route service with our truck and our planning scheduled maintenance for anyone interested.

Service you can depend on...



When your dairy equipment needs professional service it's good to know we're as close as your telephone. Our service technicians are all specially trained to know De Laval® equipment inside out. So when you break down we can get you going again as soon as possible. But, even better, check with us about our Scheduled Maintenance Program. Regular maintenance is the best way to keep your equipment performing the way it was designed to perform. And, in the long run, that means more milk at less cost. Emergency service or scheduled maintenance . . . give us a call.

DE LAVAL

Call: 301-658-6923
374 Biggs Higway (#273)
Rising Sun, Md. 21911

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Ph (717) 582-4108 Evenings 834-4838

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• Wet Cast Concrete Staves	• Replaster	• P&D Golden Gobblers
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DAIRY EQUIPMENT

DAIRY EQUIPMENT

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Call For Price on New 15' Grain-o-Matic Silo...
Just Right for The Small Dairyman.

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800 Gal. Essco w/compressor . . . $1250
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- Oswalt TMR Mixing Boxes

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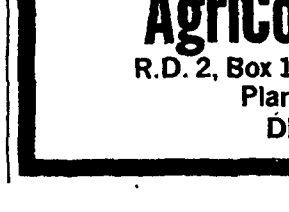

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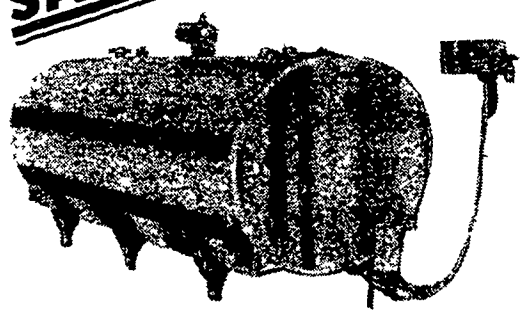

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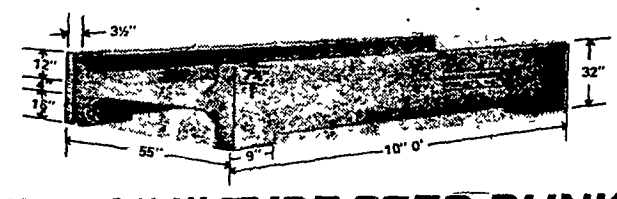

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Baled, shredded paper for animal bedding. Works well in dairy barns, poultry houses and others. 1 bale - approx. 1300 lbs. - will bed 50 dairy cows for 2 weeks. 20 tons per 45' trailer. $45 per ton F.O.B. near Buffalo, NY plus $1.10 per mile delivery charge. Strictly C.O.D. certified check.

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$200.00
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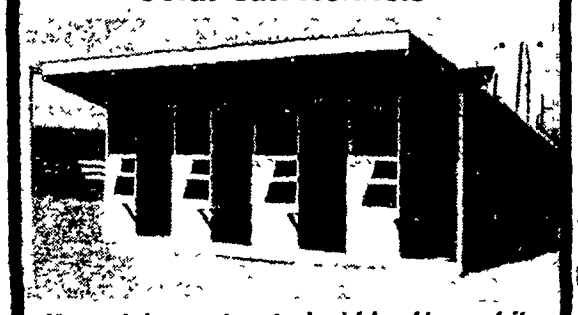
1 mile North of Bird-in-Hand on Beech Dale Road

For Sale
Solar Calf Kennels



Kennel is on treated skids. Has white baked enamel roof. Aspenite siding. Vent in back, grain and hay feeders. Bucket racks included. Kennel sizes available from 2 to 6 pens.
Prices size 8'x12' 4 pen $380
4'x8' pens $105. @ plus 3'6" overhang
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Reg. Angus cows, also Angus heifers, excellent for 4-H projects. Call 301-592-6485

For Sale - Holstein Bulls, service age, purebred and grades. 1 sired by Pete, dam has a 2 yr. old record, 21,000 milk 966 fat. Levi M. Stoltzfus, 31 E Eby Rd., Leola, PA 17540

Polled Herefords, 14 feeder steers, bred heifers and cows. Chester County. Evenings 215-269-1994

Registered Angus and Commercial cows due to calve in March. Also Registered Angus Bull, young steers and heifers. Price negotiable. Terms available. Hershey. 717-566-8902.

Will sell 15-25 cows or springing heifers due to being overstocked. Call 301-578-9868 preferably eves. after 8.

Herd Reduction Sale - Performance tested purebred Angus. This year's average 205 day weaning weight was 567# with no creep. Heifer calves from $300, Bred heifers and cows from $500. Also bulls and steers for sale. Certified and accredited herd. Chester County. 215-857-2168.

For Sale - 20 mo. old Registered Jersey bull. Gentle disposition. In service now. Sire Finalist of Marlu. 215-689-5387

For Sale - 21 registered and I.E. Brown Swiss cows and heifers. AI sired and bred, top sires used. classed 10-29-81. 7 due by March. 100 straws Brown Swiss semen and tank. 302-678-1085.

For Sale - Springing Holstein heifers, registered & grade, sires Marvex Molly Chief Eric from dams with good records. Phone 717-865-2536. Lebanon Co.

For Sale - Registered red & white Holstein heifers. Due soon. Black & white registered Holstein heifers. Close. Open heifers. Dams up to 25,000 milk. 607-656-8443. Call eves.

For Sale - Service age Registered Holstein bull. Sire is Rockman, Dam is 4% tested out of Criterion. $650. Juniata Co. 717-463-2360.

For Sale - Holstein springing & fresh heifers & cows Pick from one of the finest selections in the Northeast, - Honest dealing, satisfied customers, & quality cattle has been synonymous with our name for almost 50 yrs. Distelburger Livestock Sales. Middletown, NY 914-634-6689.

Local Privately owned young Charolais herd, 15 cows, 6 calves bull. Rising Sun MD Call 7-8 AM 301-658-6789.

For Sale - Grade Holstein Heifers, ready to freshen. 717-284-4618.

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For Sale - Registered Holstein bulls from top AI sires, many available to select from. Star Rock Farms, John Barley 717-872-4058.

Simmental Percentage & Purebred bulls, cows, heifers & club calves by leading AI sires. Performance tested. Edward Pierce, R.D. 2, Neshanic Station, NJ 201-369-4039

Service age registered Holstein bulls by Pete, Star, Astronaut, Glendale, Chief and others. Dams classified very good with records over 29,000 lbs. milk and 1195 lbs. milk fat. Stumpland Farm. 215-488-1965

Chianina-Angus Cross for sale. Cows, heifers, feeder calves and bulls. 717-872-5655.

For Sale - Large choice Holstein heifers, bred & open, over 350 to choose from. Harmony Dale Farms, Phillipsburg, NJ. 201-859-2616

Angus cows with calves; young bulls, reasonable. 301-658-6789. Call 7:00-8:30 A.M.

Chianina, Simmental, Angus-cross bred club calves. Your pick $500. Antle Farms. 814-237-4608.

For Sale - 3 Registered Holstein heifers, 11 mo. old. Must sell. Berks County. 215-488-6826.

One Charolais stock bull from A.B.C. Call 717-741-3055.

For Sale - 7-heavy young Angus cows. Bred for spring calving. $475 each. Berks Co. 215-693-5624.

For Sale - Guernsey cow and heifer, freshened 9/2/81, tested for TB and brucellosis, both $1100. 215-966-2295.

For Sale - Registered Black Angus club calves, heifers & feeders. 550-650#. Yellowhouse Berks Co. 215-689-9168.

Polled Hereford breeding cattle for sale. Herd sires: Walking Tall, Enticer. Green Gate Farms, Lewistown, Pa. 717-248-7666.

Two Registered Holstein heifers for sale. Due February. A.I. sired, dams records to 16,183. Juniata Co. 717-527-2501

For Sale - 3 registered Holstein heifers, 2 daughters of Penmar Apollo Topper, 1 due in December. 717-742-4200. Northumberland Co.

Registered Holstein cow, sire Penn State Ivanhoe Star just fresh. 717-354-7689.

Registered service age Holstein bulls, like Bootmaker son out of very good Chief 1100F, next dam exc. Astronaut, bull has full sister exc. Shelmar-Acres 717-653-5663

Cow Herd for Sale: some registered Charolais, some not registered and commercial herd. Free delivery any where in PA. with purchase of six or more head. Call evenings. 215-584-6894.

3 Grade Angus cows over 1100 lbs. bred March - May. Weaned 3 1981 Calves over 500 lbs. 2 Hereford Angus heifers born 4-4-81 by above cows weaning weights 500 - 585 take one or all. 717-328-2305. Franklin Co. last Grade cows in Registered herd.

For Sale - Reg. Jerseys, 2 cows, 3 bred heifers, 2 open heifers, 1 yearling, 3 calves, quality stock. Prices reasonable. 215-926-1261

For Sale - Black Limousin Bull service age. Bedford Co. 814-623-1289

We need 40 cows w/financing, $150,000 solid collateral Write Lancaster Farming, P.O. Box 366 K-23, Lititz, PA 17543.

For Sale - Registered cows and heifers in all stages of milk By popular sires out of classified dams 215-932-9762

CATTLE

Registered Holstein bulls, 1 year old and younger. Out of dams with records to 24,000 milk and 900 fat. Stump Acres 717-792-3216 York County.

"Wisconsin and Canadian Dairy Cows For Sale - 1st, 2nd, and 3rd calf. Fresh and close springers. Cash, or credit with down payment. Specialize in selecting cows for customers. Free delivery. Call collect. Reuben Greenberg, Inc., Columbus, New Jersey 08022. Phone 609-298-1021."

Wanted - Entire dairy herd, also, bred Holstein heifers. Will pay $25 more per head than the going price. Don't sell until you call me. Call collect - Reuben Greenberg, Inc., Columbus, NJ 609-298-1021.

Wanted - Herd of dairy cows or heifers, 301-358-0412.

Buyers & Sellers of Livestock -- Be sure to check the advertisements for cattle in the Lancaster Farming. You'll get results! 717-394-3047 or 717-626-1164.

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Various plans available.
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1700 Dupont Ave. South
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612-377-1489

For Sale - Polled Charolais bull, 4 years old, very good breeder, best offer. 717-467-2039. Schuylkill County.

Fresh and springing Holstein heifers and cows. Also breeding age heifers and service age bulls. 717-653-5408.

For Sale - 40 head of cows and heifers including 7 first calf heifers, 4 registered cows, Sires include Paclamar Double Triune, (2) Hilfar Foundation Spectulation, Willow Farm Rockman Ivanhoe. 9 dry cows due Nov. to Jan. Average age 3½ years old, milking 51-52 lbs. per day. DHIA herd average 14,000. Vet examined, TB and blood tested within 30 days. Lots of Fall and Winter milk. Ready to be moved. 717-393-0930.

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NY - NJ - PA
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Stonehurst Farm Dairy Sales Inc.
Strasburg, PA

Cows Heifers
Horses Mules
Bulls

SPECIAL OF THE MONTH

A - 4 month Reg Holstein Heifer Calf
FREE
The winner to be chosen Dec. 31, 1981
Stop by or Call us For Details!
We enjoyed Selling you Cattle and Horses this year.
A Joyous Holiday Season to All of you!
Don and Harold Welk
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Wanted to buy - 10-15 head of open, registered Holstein heifers, 6 months to breeding age. Heifers must be vaccinated. Prefer AI sires and dams w/DHIA records. 717-677-9658 evenings. Adams County.

For Sale - Red Holstein cow due w/2nd calf Dec. 21 Berks. 215-589-4200.

2 reg. Holstein heifers, 1 due Dec. 24 out of 18,000 lb. dam, other due June out of 25,000 lb. dam 623 Musser School Rd. Leola. 717-656-6939.

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Established Quality Breeding Stock Cows, Pairs, Heifers, Club Calves, Feeders, Proven Bulls.
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This herd consists of 39 Reg. and Grade Holsteins. DHIA Records. Daughters of the following sires are represented in this herd: Zeldenrust Supreme dtr. with records to 21,920M, 3.8T, 840F; Shi-Lo Gent Blazer dtr. 20,078M, 3.9T, 818F; Shil-Lo Gent Chief dtr. 22,712M, 4.2T, 960F; Heatherstone Lucky Type Blazer dtr. 18,487M, 4.0T, 745F; Vigo Charm-cross dtr. 23,951M, 3.5T, 888F;

Other top sires of this herd are - A beautiful dtr. sired by Ran-Mar Larry Leader, one by Level-View-N-Jet Stream Jasper, Arlinda Jet Stream, Krebscrest Napolean; Simpsons Farm Tidy Gent; Walhowdon President Vernon; Tidy Burke Transmitter; MD. Gay Winds Merry King.

For details on this herd call 717-658-7496
Snyder County

7/8 Simmental bull, born May 19, 1981, actual weight at 180 days, 700 lbs. 717-284-4672

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23 Registered bred Suffolk ewes. $2,400. Bradford County. 717-744-2020.

For Sale - 20 Black Face Ewes. 2, 3 and 4 years old. Bred to Polled Dorset. Franklin County. 717-349-7281.

For Sale - Flock sheep Hampshire 1 ram, 18 ewes, 7 lambs. Earl Frantz, 286 Neff-Laurys Rd. Schnecksville, PA 215-799-3088

Suffolk Rams, registered from good twinning stock, breeding age, sell or trade. 215-253-4467

1 9 mo. old Reg. Southdown ram and 1 9 Mo. old ewe sheep, tame. Nice for 4-H, FFA, or Christmas. Best offer. Evenings. 717-872-5523.

For Sale - Reg. Hampshire ram lamb, 302-998-4731.

For Sale - Registered Suffolk's bred yearling ewes & mature ewe lambs. A few older ewes & 2 rams also available. Also a two hole corn sheller 301-378-3178.

For Sale - 45-50 lb. lambs. Good for Christmas York Co. 717-244-3914 or 717-244-2486.

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Bay weanling colt Chestnut filly-weanlings. Also broodmares. Part-Arabians. 1977 double J trailer, 2 horse, white, electric brakes, low mileage. Iris Hooke, Hightown, VA 24444 703-468-2377.

Canadian solid runner 2 to 4 capacity sleigh, like new $725, Wicker 1 horse sleigh needs work $325 Northern Baltimore Co, MD 301-374-6024.

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Wanted - Horse 2 wheel driving cart. 717-964-2098.

For Sale - 7 yr. old Belgian mare with stud, cold broke. The best. Norman Kahler, Dornsife RD 1 Northumberland County, PA Phone 717-425-2576

For Sale - 8 year old Saddlebred carriage horse. John G. Stoltzfus, Christiana RD #1, Ridge Road, east of Kirkwood.

For Sale - Buggy in excellent condition. 6 miles S of Strasburg along May Post Office Rd. Inquire Tues or Wed.

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Purebred Registered Arabian Horses
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Blacksmith Horseshoeing, Standardbred, Thoroughbred, Quarter Horses, Draft Horses. Will travel. Call 717-768-8709 or 717-464-3827

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Stallion Service
R.D. 2, Box 179
Berks Co.
Bernville, Pa. 19506
215-488-6914

Pennsylvania Draft Horse & Mule Association Sale
February 17, 1982
Blizzard date - February 18, 1982
Pennsylvania State Farm Show Building - Corner of Cameron and McClay Street, Harrisburg, Pa.
Tack - 9:00 A.M.
Horses - 12:00 Noon

TERMS - Tacks and Draft Horse related items - 10% - with Maximum Commission $50.00.

Horses - $25.00 to accompany consignment.

If no sale - no refund. 4% commission - Maximum comm. $120.00.

$25.00 entry fee to be deducted from commission.

Catalog Deadline Jan. 1, 1982

Consignments will be accepted until 10:00 A.M. February 17, 1982.

Horses will be sold in order of consignment.

Negative Coggins Test and Health papers within 6 months must accompany horses.

CONTACT

Elmer D. Lapp
Box 97 R.D. #1
Kinzers, Pa. 17535
717-768-8177

Gail Biddle
Box 242 R.D. #1
Boalsburg, Pa. 16827
814-466-6215

W. David Keller
R.D. 2 Box #1
Hummelstown, Pa. 17036
717-566-0529

Abraham W. Allenbach
R.D. 2 Box #55
Springs Mills, Pa.
814-422-8393

SWINE

SWINE

SWINE

For Sale - DeKalb gilts (bred) due soon purebred, Chester White boar; 16 hole Smidley feeder, John K. Beiler, RD 1, Lynnwood Road, Ronks, PA 17572, Lancaster County.

DUROC BOARS and gilts, production tested, certified meat type show winning stock. Bloodlines of the best in the U.S. Par-Kay Farm, Park F. Thomas, Beavertown, Pa Phone 717-658-6544

For Sale - Duroc boars & gilts. Sweigard Durocs, R.D. 3, Box 639, Halifax, Pa 717-896-3365.

125 Hampshire - Yorkshire open gilts. Also service age boars of both breeds. John Strawbridge, Stewartstown, Pa. 17363 301-996-2022

For Sale
Duroc and Landrace Boars
from production tested sires. **Crossbred gilts** from Landrace or Yorkshire sired litters. Crossbred litters maintain a 9 plus weaning average over 400 litters per year.
Dutch Valley Farm
Rd 5, Box 428
Manheim, PA 17545
717-665-6220 Mark
717-665-2588 John

Yorkshire Boars and open gilts, breeding age and younger. Miller Yorkshire Farm, Rd 1 Box 1366, Spring Grove, PA 17362 717-225-1926.

Chester white and spotted boars and gilts for sale. Delivery available. James Parlett. RD 2 Airville, PA. 17032. 717-862-3610.

For Sale - Boars: Hampshire and Berkshire boars. Service age, delivery available 215-285-6582. Call after 4 P.M. Terry Bennecoff.

For Sale - Duroc service age boars, sired by Midwestern bloodline Fast gaining, aggressive breeders. Pseudorabies free herd #34, validated #133, delivery can be arranged. Rick Pfautz, Stevens, PA 215-267-3739.

Registered Hampshire, Yorkshire, Landrace Boars, Bred and open Gilts, also Rams, Ewes. Preston Bankert. 717-244-1244

For Sale - Bred gilts, some to farrow in December, 4 way cross. Ed Ranck, 215-593-6488

2 Duroc boars, 10 mo. old, out of Purina Kleen Leen stock, can deliver. 717-569-4762 after 4 p.m.

Reg. Yorkshire Boars. Bred Gilts, and Open Gilts. Will deliver Red Run Farm, RD #2 East Berlin, Pa. 17316 717-292-4634. York Co.

For Sale - Purebred Yorkshire boars, bred gilts and open gilts, carcass championship bloodlines. Wilow Glen Farm, R2, Strasburg, PA 717-786-2562

SWINE

If you have swine to sell or buy - check our swine column It is read weekly by thousands 717-394-3047 or 717-626-1164.

SAVE MONEY!
Call direct for the best possible feeder pig prices.
Call Collect
Fred Patterson
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DUROC & SPOTTED BOARS
Duroc, Spot, Crossbred Gilts
(Delivery available)
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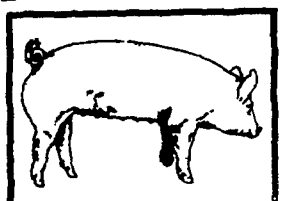
Kenneth Ketterer
Phone: 717-423-6250



Healthy Open Gilts
Pseudorabies Free Herd #38
Kleen Leen Breeding
Market Price Plus $15
IVAN SENSENIG
East Earl, Pa.
215-445-4649

SWINE

Open Gilts from certified Kleen Leen stock, qualified pseudorabies negative herd No. 44, Brucellosis validation No. 168. Also York - and Landrance cross boars Weaver H. Zimmerman 717-354-8147

WANTED
3000 feeder pigs, 50-85 lbs. within next 4 weeks, delivered to Atglen, PA
Minimum quantity 30 pigs per shipment Most be #1's & 2's. Call 215-593-2505

FOR SALE:
Duroc Bred Gilts
Bred gilts due in February and March Growthy, big-framed and Sound. Bred to a super-sound, modern-type son of H P Hostage. These gilts are same breeding as several Farm Show Champions, Lancaster County FFA, and several county fair Grand Champion Market Hogs These gilts will raise some top Market and Breeding Show pigs. Also Boars and Open gilts for sale Validated and PRV Free Herd Possibly can arrange delivery to Harrisburg around Dec 26
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Smicksburg, PA 16256
Phone 412-286-9671

SWINE

FEEDER PIGS FOR SALE
Available in Quantity
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"Landrace The Great White Breed"

Validated Herd #92
Purebred Landrace Boars for Sale
Good Selection, Top Bloodlines
National Champions, State Champions
Excellent Health Record
Harper's Valley Farm
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Annville, PA 17003
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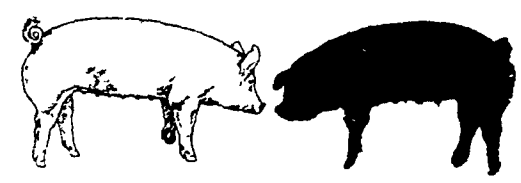
YORKSHIRE BOARS - DUROC BOARS



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3 Yorkshire - immediate service. 4 May boars, 35 June boars, Duroc, 15 - June 20 - July. Val. #101 PRU #53. Price $300-$500.

We will be delivering boars to PA Farm Show daily. Call early for best selections.

Free delivery in Lancaster County most Mondays.

We are located 30 mi. from Lancaster, 10 mi. from Farmer Boy Ag, 1 mi. from Tri-County Swine Systems.

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Yorkshires	Durocs
Leon L. Arnold	Lawrence Arnold
Rd 7 Box 705	1245 Cumberland St
Lebanon, PA	Lebanon, PA
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Next Sale February 13th

Selling 40 Boars, 50 Bred Gilts 50 Crossbred & Purebred Open Gilts

AGGRESSIVE BOARS FOR SALE
PUREBRED & CROSSBRED BOARS
Tested at our own boar test station. Tested on concrete, conditioned on pasture after test.

A good selection of
CROSSBRED GILTS
(York-Hamp, York-Duroc crosses)
Boars and Open Gilts Guaranteed to breed

DELIVERY can be arranged
Brucellosis and Pseudorabies Tested Negative Herd

Buy Predictability and Healthy Breeders
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YOUR DOLLARS WITH HYBRID BREEDING STOCK
Boars and Gilts
SALES OR LEASE

M + D
Y + L

EAST COAST HOG SERVICE

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SPOT x 1
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SWINE

YORKSHIRE AND LANDRACE boars and gilts of all ages Pseudorabies negative tested boars for sale at all times. Production tested, certified meat tested, Show winners with many carcass champions Daily drive-in and drive-out service. Reno H Thomas, Beavertown, PA 17813. 717-658-5821

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SERVICE AGE BOARS Straight Irish or other foreign bloodlines No. U S breeding in our herd. Reno H Thomas, Brooks End Farm, Beavertown, Pa., 17813. Phone: 717-658-5821

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★ COMPLETE AUTOMATION FOR WATERING, FEEDING, VENTILATION

Batch mixer, Supreme model 7004 w/electronic scales. Good condition Call: 717-299-3638

Hog fattening facilities for rent in Southern Chester County. 2000 hog per year capacity, 15 ton feed storage, slatted manure pits. Also 11,000 bushel grain storage available. 215-932-2678.

3 ton feed bin with 200' of flex auger and 2 motors. 717-626-4762 after 4 p.m.

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Farmer Boy model 70 hog sheller w/pen divider, weather guard, and sixteen hole Smidley feeder. Used 1½ years. Very good cond 717-682-2071 after 6 P M.

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Used Smedley Hog Feeders without lids
Sizes #4's, 5's & 6's
Good Prices
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40 case/hr. Aqua Magic washer, candler & grader. Vac-Packers w/belt line turntable & carton closer. 50 case/hr. Egg-O-Matic grader/candler, 4 automatic packers w/carton closer & inline w/featherlite washer. Above equipment very clean. Call Jim or Mike Enck. 717-299-0828

600' Litter carrier track, 4 carts, 256 section 4'/12' poultry house slats. Burch 9015 egg room cooler. Call 717-733-7674, Lancaster Co.

Zeller Agri Services

High Pressure Washing & Spraying
Poultry Houses, Hog Building, Calf Barns

Complete Ventilation & Security Alarm Specialists

RD 1, Elizabethville, Pa. 17023
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Wanted - Alfalfa, clover, mixed and Timothy hay, top quality only. Pay at your local scale. Fred Messling, 15 Glen Ave., Phillipsburg, NJ 08865 In business 31 years. 201-454-8259

Shelled corn for sale 412-794-3863

For Sale - Special trailer loads Peanut Hulls, $28 ton plus transportation Suffolk, Va., immediate delivery Bomberger's Store. 717-665-2407

Chambersburg, Hagerstown, Gettysburg, Frederick areas Highest price for good hay. Cash in your hand 301-739-8035

Want to buy hay at farm by trailerload in South and Central PA. Contact J H. Mears 703-347-1414

18 Varieties WAXY Seed Corn Available, also Dent Seed Corn, Soybeans, Alfalfas. Contact George Steele, Custom Farm Seed, 717-665-6931, Dealerships Available

2000 bu high moisture corn, approx. 30 percent moisture 814-472-6752

For Sale - Roast Soybean, baler twine. Plastic $20.25. 717-786-3435.

For Sale - Round bales, Timothy, Orchardgrass, Blue grass mixed. $30/bale loaded on your truck. Also wheat and Barley straw $20/bale loaded on your truck Call 717-624-7585 or 624-2429

Increase the value of your corn, feed it to cattle in our feed lot. 814-832-2244.

POULTRY & SUPPLIES

Wanted-Heavy hens.
We buy, sell and haul all kinds of poultry. Yank's 215-494-4578

BABY CHICKS - Hubbard Leghorns, Golden Comets, Cornish Giants, Barred Rock, Reds and other breeds Also turkeys, ducks, geese, guineas, and game birds. CASE HATCHERY, 79L Brodbecks, Pa. 17329, 717-235-2050

For Sale - 14 young different colored roosters. Full breds araucana. Hens lay colorful light and dark green, pink, tan, blue eggs. $5 00 each For breeders or dressing. Levi Miller, Paradise #1 Pa. 3 miles S. Vintage Rd.

Sell direct to us for cash.
* Fowl
* Pigeons
* Bantams
* Pullets
* Capons
* Rabbits
* Guineas
* Chuckers
* Turkeys
* Lambs
* Goats

JACK MINTZ POULTRY
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Buyer of shelled or ear corn. John J. Hoober, Inc Gordonville, Pa. Ph. 717-768-8481 or 768-3216

For Sale - Bright Wheat straw, will deliver Stump Acres, York Co. 717-792-3216.

Wanted - Ear corn, good quality only. Will pickup at your farm. Ken Miko, RD 3, Schuylkill Haven, Pa.717-739-4586

For Sale - Oyster shells, Contact Nelson Weaver & Son, Inc., Lititz, PA 717-626-8538

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ALFALFA, TIMOTHY & MIXED HAY & EAR CORN
Will pickup
JAMES G. KREIDER
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Lancaster Co.

BUYING EAR & SHELLED CORN BARLEY & WHEAT
Receiving Daily
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West of Buck, PA
PH: 717-284-4628
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SAWDUST & SHAVING MIXTURE
Bulk Loads
50 mile radius of Harrisburg
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NEED MULCH HAY
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Specialize Small Farms
Loads Both Ways
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For Sale - Hay and straw delivered in 5 ton loads. Ron Reinford. 717-776-7888

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Will Deliver
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Berks Co.

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Good Quality Only
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feeding Hay & Bright Straw
We haul or you can haul.
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Elizabethtown, Pa.
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Buying and selling high moisture corn and dry corn
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Trucking Available.
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CONTRACT OR SPOT PURCHASE
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Fast unloading, digital printout scales
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Located along Rt. 10 between Russelville & Oxford
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Fast Unloading and Loading
225,000 Bushel Storage Capacity
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Picked Up At Your Farm Or Delivered To Milton.
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SAWDUST AND SHAVINGS MIXED
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Picked up at your farm or delivered to Manheim.
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BROILER & TURKEY MANURE FOR SALE
Delivered within 100 mile radius of Harrisburg, in 15 ton loads.
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FERTILIZER

For Sale - Chicken manure, will deliver, 215-273-3097

WANTED - CAGE LAYER MANURE
I can provide cleaning and hauling during the following months: June August - September and December thru March.
Schedule your houses Now!
References provided upon request
York Co.
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HOG MANURE FREE
except for delivery charge
15 mi. radius of Felton, York Co.
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Farmers Save Fertilizer Cash
On corn and tobacco land
Use *mushroom manure*
Special Sale ends February 1, 1982
Five 800 bu. loads
Fertilizer value is $900
Our manure cost is $300
Free Delivery
Have a Merry Christmas and a Happy New Year
Mahlon H. Martin & Sons
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Hauled in 20 ton loads
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MUSHROOM SOIL
1000 bu. load @ $75 per load
Poultry Manure Also Available
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after 6 P.M.

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Mulch Crop Supplies
again available after Jan. 15, 1982
Plastic-Jiffy 7's-Jiffy 9's and tape seeds
These supplies offered at low prices. Plastic prices lower than last year. Early order appreciated.
Rufus R. Martin
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Repair old or new homes. Aluminum window covering and siding, roofing, old barns, etc.
Stephen F. Stoltzfus
RD 1 Box 176
Strasburg, PA
717-687-8412

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FAST PROMPT SERVICE

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• ELECTRIC - ACETYLENE - MIG
• ALUMINUM - STAINLESS STEEL
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Cattle Hoof trimming, David Eckman, Lancaster & surrounding counties 717-284-2388 or 284-4706, Somerset & surrounding counties 814-798-3209

Oatman Septic Pumping Service. White Oak Rd. Smyrna, Lancaster Co., PA 17509 215-593-6240 215-857-9612

Bradford's Cattle Hoof Trimming with hydraulic table. 301-452-8574, Street, MD.

Soybean roasting on your farm. Dale L. Schnupp RD 6 Lebanon, PA 17042 717-865-6611

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Will board heifers. Quality haylage, corn silage, supplements and minerals. Any age from 6 months to freshening Chester Co. 215-347-1792 or 347-2346

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Distributed by
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after 6 p.m.
No Sunday Calls

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PA 17527
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Horseman farmer w/small family for brood mare farm in MD. Prefer man over 40. Excellent situations w/new house. Trans. & Ref required. Box 68 Butler, MD 21023

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PROBLEMS??
With cows hooves
call
"The Hoover"
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HELP WANTED

Young christian couple to work on modern dairy farm Wife help with milking occasionally. House and utilities. Experience and references required. Chester County 215-269-3442

Person wanted to help milk and do general farm work on modern dairy farm Experience and references preferred. Good wages plus nice farm house, utilities and health insurance paid. Quarryville Route 1, Pennsylvania Call between 7-9 P.M 717-786-2957

Area Sales Manager position Aggressive, creative & highly motivated person to sell field-bottom unloading silos in 16 County area. Prefer Bedford-Fulton Co. residence as this would be the center of the area. Must have agricultural background & have at least 10 yrs. of successful selling of agriculture products Pay & benefits commensurate with ability, experience & productivity. Reply to Box 366 JH-137, c/o Lancaster Farming, Lititz, Pa 17543

HELP WANTED

Anis-oil dealers wanted. 717-626-5693.

Individual with management ability for modern poultry and grain farm in Lancaster County. Hospitalization, paid vacation, and other benefits provided. Write to Box 366 J-210, c/o Lancaster Farming, Lititz, Pa. 17543

Assistant herdsman on modern Harford County MD dairy farm. Some field work. Write. Lancaster Farming Box 366 K-19, Lititz, PA 17543

Secretary - pleasant working conditions, opportunity to advance to management position. Lebanon area. 717-272-3333

WANTED
Someone in Lancaster County w/feed lot to finish approx. 25 head beef cattle.
Send replies to:
Lancaster Farming
P.O. Box 366 R-85
Lititz, PA 17543

HELP WANTED

EGG PLANT PROCESSING MANAGER

West Coast. Supervise 150 people and processing, breaking, dryer, QC, shipping-receiving. Egg plant experience a must. Opening immediate. Call Ted Schell.

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ALSO
Position for agricultural equipment salesman with field experience.
Confidential Inquiries
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Location - Northern Va., Piedmont Area.
Send Resume to: Box 366 J-206 Lancaster Farming Lititz, Pa. 17543

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For Sale - 1970 Int 400 6-71 Detroit, less than 15,000 mi. since major, twin screw, new clutch, trans rebuilt, air slide, $6000. 301-648-4613 after 7 p.m.

1968 Diamond Reo 15' dump licensed 52,000 260 Cummins $3,500. Will consider trade on late model Ford Custom or Crew cab pickup. 814-355-3553.

1975 Ford F 600 11' Flat Dump $5975, 1974 F 700 16' Flat Dump PS $6500 1975 Ford 4x4 Pickup Auto, PS $2375 1979 Dodge Power Wagon Pick-Up Auto, PS $4675 1971 IHC 20' Log Bunks, Tandem Prentice loader $13,500 1975 Tree King Log Loader IHC 220 Power unit $12,500 Others, 814-793-2829 Curry Supply

1977 Chevy C 30 Hostettler 12' Cattle Body and roof, power steering, Silverado PKG, very clean $7,500. Trade, Finance 814-793-2829. Curry Supply.

TRUCKS & TRAILERS

1960 Fruehauf 32' tandem axle flat trailer with 4' grain sides $1500. 301-790-2664

Moritz: - 6 x 16' Gooseneck Livestock Trailer, Medium Blue (717) 667-3921

Custom built stake side truck body. 10' x 7'8" by 3'7" sides. Fits ¾ or 1 ton. 717-264-8814

1980 Ford F-150 4x4 Ranger, 6350 GVW, 18,000 mi. Rust proof. Trailer towing package. 4 spd. trans. $7900 firm 717-776-7724

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74 freight liner 318 - 13 speed recent overhaul, many extras with 35 ft. dump trailer, good truck $18,000. 717-246-2218

1977 Bob Cat Diesel $6500.00 1975 Case 1740 DIESEL BOB CAT $4500 814-793-2829 Curry Supply

'62 White conv. tandem axle with 220 Cummins engine (cracked block). Excellent body. Will sell whole or parts. OR wanted. engine for same 814-349-8148.

Store your surplus equipment in a storage trailer! 35 Ft storage trailer, on wheels, rear and side doors - $1600 Kermit K. Kistler, 215-298-2011

Complete front end, fenders, hood, radiator and grill for International Loadstar Truck, perfect $150. 301-795-9631

FOR SALE
- 40 x 12'9" insulated utility potato trailer, wood floor, slider on 22" tires.
- 45 x 12'6" brown van trailer, side door, slider on 20" tires.
- 45 x 13'6" Gindy van trailer, slider on 20" tires.
- 3 low cost hay or grain flat trailers.

Storage trailers for sale & rent.
Keens 717-626-5420

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For more information on this outstanding opportunity and your future please write Lancaster Farming, P.O. Box 366 J-209, Lititz, Pa. 17543.

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Young married couple desire work - general farming or beef cattle. Strong mechanical background. Need housing. Prefer PA or New York state but will consider other offers. Union Co. 717-966-0359

Wanted - To establish business hauling dry bulk or other agricultural products. Would be interested in working for individual farmers, Farm co-ops; Feed or grain companies or established haulers Will consider all offers. Location Lancaster County Please send replies to Lancaster Farming, P.O Box 366 R-86, Lititz, PA 17543

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Imagine 50 channels on "your set" easy, reasonable Regional directors needed now!! "FREE BROCHURE" American Wholesale Satellites Box 448 Stone Mt., GA 30086

Grain farming with complete set of large equipment with option to rent 150 acres $32,000. Write P.O. Box 25, Red Lion, Pa. 17356.

TRUCKS & TRAILERS

'72 Japer trailer, 6'x16' 3000 lb. license $495. 717-792-1366.

1966 Dodge P300 step-in van w/built-in meat case and block. Ready to go. 717-428-1602

4 WHEEL DRIVES
★ 14 In Stock!
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★ 27 In Stock!
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WE DEAL!
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"THE TRUCK PEOPLE"
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Area Code 717 or 215 Call Toll Free
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or 215-327-1380

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No Job To Small.
Low rates.
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4 years experience in Turkey Hill Dairy Herd.
Tom Frey
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with
Soil Saver
Will travel for large acreage.
Berks Co.
ELAM HOOVER
RD 2, Reading, PA
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AMOS BAWELL & SONS INC.
Custom Beef & Pork Butchering
Custom bologna, franks, pork roll and ring bologna.
Also USDA inspected corn fed beef for sale - sides and quarters.
Custom Deer Processing
Bologna, ring bologna and franks.
Located 1 mi. northeast of Bareville on Butter Road.
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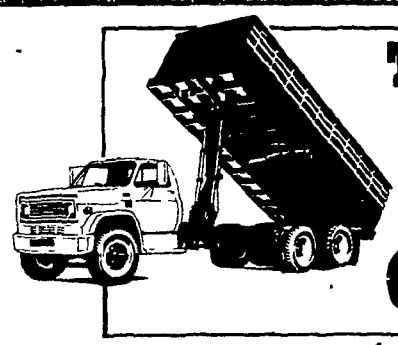
SEALSTOR
Sales manager to train and supervise field sales force engaged in selling bottom unloading silos, liquid manure systems & farm automation. Salary, expenses & commission.
We are now interviewing field sales people for a few open sales territories.
Call or Write for Confidential Interview.
Russell Darkes Jr.
Penn Dutch Farm Systems, Inc.
1730 Highway 72 N
Lebanon, PA 17042
717-273-9324

WANTED
Truck Route Salesman for a growing Lanc. Co. Dairy Equipment Co.
Must have ability to effectively deal with customers and handle paperwork.
ALSO
Position for dairy equipment salesman with field experience.
Inquiries confidential. Salary and benefits open.
Send Resume to
Box 366 J-208
c/o Lancaster Farming
Lititz, Pa. 17543

TRUCKS & TRAILERS



Tough, Dependable Farm Bodies & Hoists
Omaha Standard
FARMERSVILLE EQUIPMENT INC. Ph. 717-354-4271

TRUCKS & TRAILERS

'72 Chevy 1 ton dual wheel, 6 cyl., 4 spd. $650 or best offer. 717-684-0661

1979 F150 4 wheel drive, new condition. 717-345-3349

Energy Hyd. truck hoist Sales & Service Anderson's Repair Shop, Rd 1, Felton, PA 717-244-2039

For Sale - 1970 Ford F1000 with sleeper, 250 Cummins engine with 10 speed, tandem axle, $3900 1970 Ford, rebuilt gas engine, single axle, $2900 717-866-4906.

For Sale - used 12' wood cattle body. used 21' wood cattle body. Used 18' aluminum livestock body in exc., M.H. Eby, Inc., Blue Ball. 717-354-4971

Cherokee & Rawhide stock trailer, dump grain trailer, farm flat beds & horse trailers. Gooseneck & bumpers available. 201-782-8771

Truck bodies - New and used Call for prices and availability. J.R. Opp Co, R D. 1, Muncy, PA 17756 717-546-3397

12' tandem axle cattle trailer $700 or best offer 717-684-0661

1981 Ford F100, 2300 miles, power steering, power brakes, AM-FM cassette radio, steel belted radial tires. $5,495 717-345-3349

Ford 1969 W1000CoE. 335 Cummins w/fuller 10-speed, road ranger. Heavy duty rears, twin screw. 10.00-22 rubber. Good condition. Drive train excellent Needs cab Call 609-451-6057 $4000.

For Sale - 1962 GMC 5000 cab and chassis. 26,000 GVW $1000. Call 717-761-0651 after 8 PM

Wanted - Aluminum tandem axle dump trailer for grain. 609-298-3342.

1971 International 1 ton dual wheels, 6 cyl. 4 spd. $700 or best offer. 717-684-0661

Gooseneck dump trailer, 15,000 GVW and/or J20 jeep 8,400 GVW, both inspected. Lancaster County 717-786-1882

Cherokee Trailer - 20' Gooseneck Two-axle flatbed trailer Great machinery or hay hauler $3250 00. (717) 667-3921

For Sale - or Trade - 1975 35' Globemaster travel trailer w/separate bedroom, AC, and much more, used one year Asking $6000, value new $15000. Will trade for good diesel farm tractor, crawler or backhoe of equal value. 717-334-6357 weekends. 717-334-7035 evenings.

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1977 Int. 1800 446 V8, 5 and 2 speed, air brakes, power steering, double frame 10.00x20 tires, 69,000 miles, 32,000 GVW, 1971 Int. 2110 tractor with 5th wheel, 477 V8 5 and 2 speed, air brakes 10.00x20 tires 301 877-9889.

For Sale - 1965 F Model Mack, cab needs repair. Running gear good will sell whole or parts Also 1693TA Cat engine, RT 12513 Road ranger trans, 44000 Rockwell rears, spokes hubs, 12000 front axles, disco hubs Phone 717-365-3714

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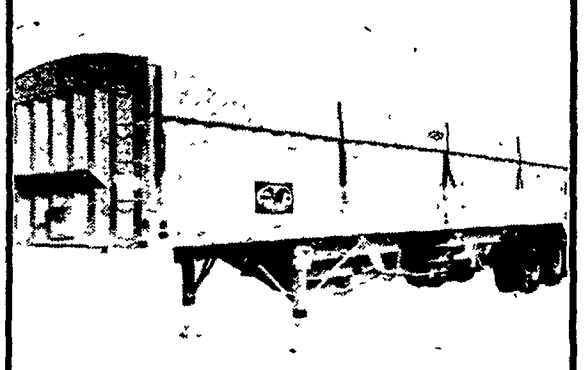

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Prices starting below $15,000
All welded for strength and long life.
Wood Chip Trailers A Specialty!
for sale - used 32' Freuhauf tub, 45,000 mi.

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EXCEPTIONALLY CLEAN AND WELL MAINTAINED

1977 FORD ECONOLINE E250
300 cyl. engine, auto trans. radio, new paint.

1975 CHEVROLET 20' VAN TE67
366 V8 engine, AT540, automatic transmission, aluminum body w/curbside door and roll-up rear door, power steering, radio, new paint.

1976 FORD 14' REFRIGERATED VAN LN7000
175 HP Cat engine, 5 sp. - 2 sp. trans., 1000x20 tires, dual 50 gallon tanks, XMT-20 Thermo-King unit, new paint.

1979 CHEVROLET C7D042
Cab and chassis only, will take 14 or 16' body, 366 V8 engine, 5 sp. trans., PS, tilt hood, new paint.

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1975 CHEVROLET Titan 90
Tandem axle diesel sleeper, 318 Detroit engine, 10 speed transmission, PS, AC, with or without new paint.

1976 PETERBILT 352S86
Tandem axle diesel sleeper tractor, 350 Cummins engine, 13 speed transmission, power steering, A/C, overhauled.

1977 GMC JC 9640
Tandem axle diesel, conventional cab, NTC 290 Cummins engine, 10 sp. trans., 38,000 rear axle, PS, AC, low mileage

1977 Ford LN 9000
Single axle diesel, conventional cab, 238 Detroit engine, 10 sp. trans., PS, AC, Air Shield, just overhauled, with or without new paint.

Complete maintenance records available for inspection. Other makes, Models & types to choose from.

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RECREATIONAL VEHICLES

Playmor Camper w/stove and table
1964 Chevy Camper, self-contained, sleeps six

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1976 D-200 Club Cab ¾ ton Real Nice
1982 D-150 Miser 21 & 29 EPA
1 - 1982 Marida Low Mileage - heather 6 cyl. fully equipped SAVE
1981 B-350 Maxi Van 15 Passenger, 8000 mi. Like New

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Route 230 East Next to Shopping Center
Elizabethtown, PA
PHONE: 717-367-1808

PETS

PETS

PUPS WANTED

"Jo Jo the Dog Man"
Last Puppy Contest of the Year will be on Tuesday, December 22, 1981
$25 prize for the cutest pup purchased!

I need good healthy, clean pups, pure & mixed breeds, 6-8 weeks old. Offering extra high cash prices. Baskets of cash waiting for you!

I will be closing my stand at Root's after Dec. 22. The next puppy contest will be Tues., March 2, 1982 with a **$200 Cash Prize** for the cutest pup.
at

Root's Farmer's Market
RD 1 Manheim
Tuesday's 5 PM - 8 PM (no phone calls please)

P.S. Please don't bring any pups to Root's after Dec. 22, 1981 until March 2, 1982.
Thank You!

"Merry Christmas and Happy New Year!"
Jo Jo the Dog Man

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'72 Japer snowmobile trailer, 6'x16' 3000 lb license $495 717-792-1366

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1962 Plymouth Fury 2 door, hard top, auto, radio, heater, ps, 318 engine, good restorable car, 9589 were built, $750 717-766-9272

1954 Ford Customline, 4 door, 6 cyl, auto, 67,000 mi., runs good, state inspected, $1250 717-766 9272

1975 Ford Granada, automatic trans. and power steering
1971 Chevy Impala Custom

STRALEY FARM SUPPLY
1760 East Canal Road
Dover, PA 17315
717-292-2631
717-292-4443

PETS

AKC Golden Retrievers ready to go December 14th, Vaccinated Parents X-Rayed for Hip Displasia $150 717-865-5887

AKC Springer Spaniels, champions and excellent hunters Ready for Christmas 717-687-8311

For Sale - Registered Australian Shephard puppies. Ready for Christmas Shots and wormed Call 717-524-0893

Black Labrador Retriever and Cocker spaniel pups Call 717-898-2539. No Sunday Calls

Border collie pups Ready for Christmans. Chester Co 215-593-6221

For Sale - Australian cattle dog pups, blue heelers, from good working stock 717-899-7755

Purebred Collie puppies, 6 weeks old 717-653-5975

Bouvier Des Flanders puppies, 8 wks. old, reasonable. 609-935-3637

AKC Registered Collie pups will make beautiful Christmas gifts, ready to go week before Christmas. Taking orders now $85.00 Franklin Co 717-328-2458

For Sale - Male Airedale Likes children could be good on coons 215-926-3973 Berks

Mini Lop bunnies, pedigreed, also Buff Brahma bantams, York Co 717-244-8998

For Sale - AKC registered Rottweiler pups & 1 registered Sharpeii pup Best offer Call eves around 8.00 P.M 215-445-7156.

PETS

AKC chocolate Labrador Retriever, Old English Sheepdog, Keeshond puppies Shots & wormed Call 717 898-2539 No Sunday Calls.

Doberman and Rottweiler Wonderland, over 100 puppies and adults for sale. Champions at stud 215-933-3600

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Puppies, 6 to 9 weeks old, in litter lots Pure breeds and half breeds Cash money paid. Will pickup every Wednesday For resale in my pet shop Write to Charles Hackett, 3743 N. 5th Street, Philadelphia, PA 19140 or call between 12 noon & 6 p.m. Mon., Tues. & Thurs. only 215-229-0449. Give breed-age-color when writing. Also some kind of direction. Thank you.

MISCELLANEOUS

For Sale - 50 kw alternator w/Deutz diesel, $7000 Also Quincy 10 hp air compressor double stage, $1200 1000 gal air tank, $800 2 cylinder 34 hp Hatz diesel, looks & runs like a Deutz, $2200 Hobart 300 amp mig welder, 3 phase current, $1200 717-935-2056

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Sure Weight Scales, portable Model 1259-B, weighs up to 3000 lbs like new $1000 609-451-4968.

For Sale - Walnut, Cherry and Rock Oak untreated Call 717-776-3239 anytime

For Sale - Top buggy with stormfront, Wayne Martin, Bowmansville along Rte 625

For Sale - Penna. fire wood loaded on your truck or trailer. Have plenty on hand Also white birch fire place logs. 717-494-1626

Wanted - Black iron cookstove, wood, coal, gas combination on legs, prefer waterjacket but not necessary Must be in good working order. Write stating price, condition, sketch. E. Stanley, 182 Bridge Street, Graterford, Pa 19426.

Sale-Meat Grinders, Band Saws, Slicers and Tenderizers, also, New Splitting Saws for only $225 Gerry Grundy, Doylesburg, PA on Rt. 75, 200 yds north of Rt 274. Open Sat and Sun 10 a.m - 4 p m 717-349-7654 or eve call 215-549-7584

For Sale - Shenendoah wood stove used only 11 mo 717-464-3287

DRUMS & BARRELS - New and used plastic steel and fiber Fresh, empty wooden barrels for wine & cider Local and Long distance delivery. Reliable Recyclers, Inc 114 S. Maple Ave, Leola PA 717-656-4211

4-burner bottled gas stove, ideal for country home or deer camp. Make an offer Call 717-626-8078.

For Sale New tobacco baling boxes, Minnich type Samuel J Stoltzfus, 2870A Church Road, Bird-in-Hand, PA 17505

Wanted Firewood Market Buyer must load and haul Bids based by the full cord 717-254 6558 Or mail bid to. Mike Simon, RD 1, Jermyn, PA 18433

For Sale - Oak, poplar and walnut lumber (green) Slabwood - long lengths and sawdust (dry) Moyer's Sawmill, Rt 2 Annville, 717-867-5316.

MISCELLANEOUS

Landis covering shop, coverings, mantillas, crocheted bonnets, hand painted mottoes, Open Mon. and Fri 1 00 to 8.00, Tue and Wed. 8 00 to 5.00, Sat 8.00 to 4:00. Closed Thur 717-392-6665.

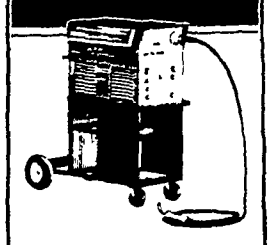
Wanted Church benches & pulpit 717-866-2496

FOR TIRED ACHING BACKS!!! Hyman Automatic Massage Pillow. For a gentle Oh-so-relaxing massage at anytime-anywhere. No on/off switch! No electric cord to plug in! Battery operated. 12 in.x12 in x 4 in. Retail Price $29.95. Special price $19.95. Money back if not satisfied. Post Paid or send for free information Dan E. Yoder, RR1 Box 188Y, Baltic, Ohio 43804.

SOLAR COLLECTOR. New design heats/cools air FAST for space, water heating! Build over weekend at low cost. Hundreds in use. How to Report, construction details, $1 00. Satisfaction guaranteed. GLADWYN HOUSE, 137 BRUSHWOOD, LOVELAND, OHIO 45140.

Canadian solid runner 2 to 4 capacity sleigh, like new $725, Wicker 1 horse sleigh needs work $325. Northern Baltimore Co MD 301-374-6024.

CENTURY ALL STAR MIG WIRE FEED WELDER



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MISCELLANEOUS

For Sale - WWII submarine document safe $70. 12 gauge high standard riot gun $250 357 stainless steel Reuger w/herter's grips and holster $250. Old 44 caliber cap and ball Spencer $250 Fast drawer western rig $80 717-588-9626 evenings.

For Sale - Buggy in excellent condition. 6 mi. S of Strasburg along May Post Office Rd Inquire Tues. or Wed.

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We're looking for tracts of good quality timber.

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Specializing in White Oak & White Ash

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REAL ESTATE

FOR SALE BY OWNER. 60 acre Berks County Farm. Up to date poultry house for 35,000 layers (now on contract) Also good horse facilities for the serious horse breeder. Farm house, 2 mobile homes, 2 wells, stream, quiet rural setting. Only serious inquiries. No brokers. $390,000. (215) 562-7776.

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MISCELLANEOUS

Factory fresh cedar chest kits, oak flooring, plywood. Phone Tom Hostetler 717-539-4091.

FOR SALE - New and used automatic washers, dryers, gas and electric refrigerators, ranges, used wringer-engine washers, new bedroom furniture Open 7.30 to 4:30, Saturday, 7.30 to 12.00, evenings by apointment. Myer's Washer-Dryer, Rt. 772, between Brownstown and Leola. 717-656-7169

REAL ESTATE

For Rent - 4 bedroom farm house west of York, newly decorated, fuel oil furnished, reterences and security deposit, $325 per month plus utilities. Available Dec 16 Prefer retired person or teen age boy to work on farm. STUMP ACRES. 717-792-3216 York Co.

94 acres, 80 tillable in Path Valley Franklin Co. PA Large stone house in excellent condition, large barn for dairy or beef. Easy access, three miles from turnpike. Hunters paradise. Assumable low interest mortgage to qualified buyer. Must sacrifice. 717-248-2120.

51A Berks County by owner. Pond, Stream, Fenced, 20 Tillable, 1780 Stone Colonial, Small Barn, Outbuildings, $140,000. No Brokers. 215-367-8194

250 acre farm in Kentucky, Grade A milk parlor. $100,000. 814-237-4608.

For Sale - Operating stock and equipped dairy farm located in heart of beautiful Dairy Valley in Central New York. Mostly all river valley land with 4-5 cuttings alfalfa, choice of milk markets Excellent 80 V-tie stall pipeline barn, Machinery shed and heifer raising facilities. Eleven room house. Must see. Phone 315-495-6560 for details.

FOR SALE - Steuben County, New York State Finger Lakes Region, 237 acre farm, completely restored federal style five bedroom home with attached garage and workshop, brand new L-shaped barn plus other older outbuildings, 110 acres tillable balance wooded, valuable gas/oil lease included. $145,000 with excellent terms available Hauryski Real Estate, 16 West William Street, Bath, New York 14810. Phone 607/776-7150.

Dairy Farm for sale, Bradford Co. 217 acres, new double 6 Bou-matic milking parlor, new bulk tank and thermostores, dairy barn holds 60 cows, tie stalls, dry cow and heifer barn, 25x60 machine shed, 2 ponds, 2 story home, new steel siding and roof, 4 bedrooms, 7 rooms downstairs, remodeled inside, home overlooking lake. Call anytime f717-888-9312

For Sale - by owner. Lycoming Co. farm. 360 A. 155 till Land only or w/buildings. Excellent hunting Call 717-435-3186

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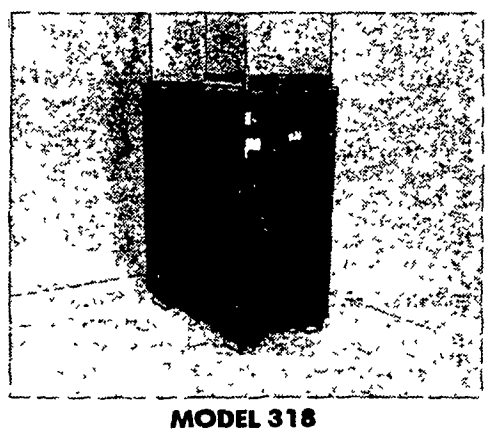

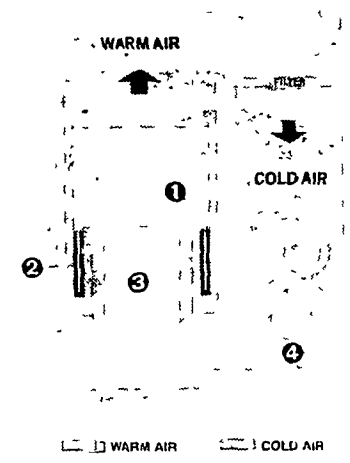

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Call for Sales 717-738-2138
215-696-1703 717-726-6127

REAL ESTATE

For Rent - 4 bedroom farm house west of York, newly decorated, fuel oil furnished, reterences and security deposit, $325 per month plus utilities. Available Dec 16 Prefer retired person or teen age boy to work on farm. STUMP ACRES. 717-792-3216 York Co.

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For Sale - by owner. Lycoming Co. farm. 360 A. 155 till Land only or w/buildings. Excellent hunting Call 717-435-3186

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100 acre farm, lg. barn and apartment, stone home, zoned industrial, excellent land, could be bought with 80 acres and no buildings, must be sold. Call-look-and make offer. Hayes Octorara 215-857-2141.

For Sale - 43A Farm, mostly iron stone soil, four bedroom house, running water, along Oaklin Drive and Yellow Hill Road, Brecknock Twp., Lancaster Co. $155,000. Some financing available, low interest. Menno Shirk, RD #2, Brown Road, East Earl, Pa. 17519

For Sale - Woodland, 20.65 acres, Walker Twp., Juniata Co., off Rt. 333, adjoining State Game Lands, $40,000. Phone 717-463-2370.

"Dairy Operation" Two sets buildings, ninety acres tillable, subdivision possible, 3 silos, near Golf course, terms possible. Ace Realty Shrewsbury. 717-235-7915 "Farm of Charm" Eleven acres colonial, barn, summerhouse, Rental Income, garages. Near Golf course. Ace Realty, Shrewsbury 717-235-7915

200 tillable acres in Harrisburg area. Mostly level limestone soil. Dairy barn for 56 cows. Large stone house convenient location for horse farm, purebred beef cattle or sales barn. You can't find a better farm for any purpose. Write Lancaster Farming P.O. Box 366 K-24, Lititz, PA 17543

82 acre dairy farm, Blair Co., 1 mi. from Martinsburg. 814-793-2339

152 acre dairy farm in Snyder Co., 35 acres in alfalfa, 45 acres corn ground in chiseled for '82, 72 acres were limed in '81, 2 silos, bulk milk tank, $1300 per acres, no financing. No Sunday calls, 717-374-9151

11 A. single residential building site, has woods, stream, poind, open land. Downingtown area. Financing available. 215-942-2591

Young farm family in need for dairy farm to rent early spring . Write Lancaster Farming, P.O. Box 366 R-84, Lititz, PA 17543

HOG FARM NEAR LEBANON COUNTY - Completely modernized manure pit, hot water, wood and oil heat, 2½ story colonial 4 bedrooms, high production Chester soil. Call All County Realtors 215-775-4800.

Minifarm 1812 eight-room farmhouse 2 barns, boxstalls, cattle stanchions 3+ acres. Other building water, electricity. $65,000. Sturbridge, Mass. 617-885-9873 885-5067.

Sale - Broiler farm 100,000 capacity, good investment $50,000. down. Fully automated Call Mr. Smith, York Co. 757-6872

For Sale - 150 Acre dairy farm, 5 miles East of Bethel at Strausstown, Berks County. Large level square fields, dairy barn with 49 stanchions, 800 gallon bulk tank, 2 streams, pond, meadow, grain dryer with metal bins, new 22 x 65 silo, 3 other silos, large pole shed for heifers and implements, new garage, 7-room house plus bath, new furnace. $2,000 per acre Phone 215-678-8274

For Sale - 117 acre farm in Union Co. PA 717-922-1410

REAL ESTATE

Barns Only +146 acres of good farm land and woods, Southern York County, asking $1,400 per acre. BAUGHMAN REALTORS 717-741-4671 or 717-862-3869 (13526).

For Sale - Farm of 9.66 acres, good buildings, 5 acres farming land, rest in pasture, creek in pasture field. Farm is 3 miles east of New Berlin, 6 miles west of Selinsgrove. Joseph C. Yoder, Middleburg RD3, Box 91A, Pa. 17842

Seasoned dry hardwood delivered at reasonable prices. Also, 2 10 acre heavy timber tracts of woodland with frontage. 215-445-6427.

Excellent Alfalfa show farm, luxury home, 35 head barn, tool shed, near Lewis County, Mennonite-Amish community. Will sell, rent, or finance $145,000. Carl Steria, Rt. 2 Carthage, N.Y. 13619 315-493-1798.

For Sale by owner - Modern 45 acre hog farm, Nebraska unit for 1200 head with complete feed factory and mix mill system and grain storage facilities. Serious inquiries only. York County. 717-757-1144.

Wanted to rent - Farmland in Lancaster and York Counties. Phone 717-653-4420 after 4 P.M.

Luzerne County, Slocum Township. Beautiful ¾ acre springfed pond on 30 acres. 400' road frontage. Excellent hunting Lovely picnic area and lawn. Great place for hunting cabin or homesite. Priced to sell. Contact Daniel Monroe Rt. 4 Orange Texas 77630.

Sale By Owner, Hershey. ½ of double brick home in excellent condition, very clean, 3 bedrooms, dining rom, eat-in kitchen with stove & dishwasher. Livingroom and bath, quality carpet throughout. Maintenance free. Single garage. Excellent location near stores, schools, banks, etc. Price - $49,900, phone 717-533-9440.

Dairy farm for rent, 138 acres, Blair Co. 814-239-2593

96 A Northern Berks, Lehigh Co., Pond, streams 4- 40x340' pole barns, high density, mobile home park zoning. Price for immediate sale by owner. Call 215-435-0153.

For Sale - 40'x350' two story broiler chicken house presently under contract. Phone 717-359-4975 or write Box 512 RD2 Littlestown, Pa. 17340

Honest, young dairyman with family would like to purchase or lease-purchase dairy farm with owner financing. Have four years milking experience and capital that could be used toward the purchase of herd and machinery. Prefer Lycoming, Upper Northumberland, Union, Montour, Snyder or Centre Counties. If interested please call (717) 322-1759.

Tioga County. Secluded 34 acre farmette or vacation hide away in good hunting area. 9 room farm house, good barn, 24 acres tillable land, balance pasture with small brook flowing through Only $29,000.

65 acres m/l hunting land both open and wooded $20,000. $10,000 down $151.85 per month for 9 years at 12% annual percentage rate
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Real Estate
Wellsboro, Pa. 16901
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FREE CATALOG! Describing numerous Pennsylvania farms, camps, acreage tracts, cottages, homes and businesses. Write Dept. LF-12, WEST REAL ESTATE AGENCY, INC. 5528 William Flynn Highway, Gibsonia, Pa. 15044.

REAL ESTATE

For Rent - 4 room house, middle aged couple, nice yard and parking. Neffsville, Lancaster Co., 717-569-1170.

2 Farms consisting of 120 acres of very fertile land, 2 sets of buildings for sale by the owner, John Strawbridge, 301-996-2022.

If you're looking for a farm, land or have any other real estate needs, you'll find what you want in the Real Estate classifieds. 717-394-3047 or 717-626-1164.

Nice little 58 acre farm for sale in Juniata Co. 717-527-4093.

North Baltimore Co.
100 acre farm with southern exposure, 65% tillable, has large barn and silo and outbuildings, some financing available with possible MD farm preservation participation. $2000 per acre. More land also available 301-343-0713

Tioga County 65 acre farm with stream, barn, new slaughter house. Ranch style home with 3 bedrooms, 1½ baths, 2 car garage. 717-724-3768. Call 717-724-3853. evenings and weekends

For Sale by owner. 240 Acre farm in Juniata Co Call 717-436-8309. After 5 PM

CAYUGA CO., N.Y.

111 acre farm, 70 acres tillable, good high lime soils, 2 story 35x65 barn with 40x80 addition. has liquid manure system with lagoon for hogs Could be set up for other livestock New 40x40 machine shed, old 7 room house, $115,000 owner
315-252-0521

135 acres level productive, brick home, large barn, 2 silos, owner financing.

100 acres good land, stone home and barn, owner financing, many possibilities

27 acres woods, Lancaster County, 11% financing

Wishing You a Joyful Christmas and a Happy New Year!
D. Martin Zimmerman
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Blue Ball
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Horse Farmette
8 acres - $127,900 Owner Financing at 13% House has new wiring, heat, roof siding, plumbing, etc PLUS Income from 2 apts 30x50 barn 4 large stalls New septic Located 3 miles west of Millersville on Rt 999

Red Hill Rd.
3 acres - $67,300 Excellent condtiion 4 bedrooms Totally redecorated Large barn pasture land, fruit trees PLUS Owner financing 20% down 13½% interest

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REALTORS®
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REAL ESTATE

67 acre dairy farm in Perry Co., 4 bedroom house, heifer barn, 30 stanchion tie-in dairy barn, new Universal pipeline with 500 gal. bulk, springhouse, wagon shed with corn, 2 Harvestores, 20x50 and 20x28.

CENTURY 21
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717-463-3686

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244 acres of prime woodland w/trails leading to adjoining state game lands and an endless network of public snowmobile trails **Perfect for a snowmobile club.** Clinton County near Hyner View. Beautiful wilderness area yet only 30 minutes off I-80 Well-stocked trout stream nearby. Owner says sell. Financing available.
Call Mr. Umble
717-898-0105

BERKS COUNTY FARM FOR SALE

150 acres at R.D. #1, Myerstown, 85 acres of cropland in a high state of cultivation presently being tilled for small grains and soybeans. This would be an ideal farm to irrigate because it has 2800 ft. of frontage along the Swatara Creek. The balance of the land is hardwoods and meadowland. 2½ story farmhouse, summerhouse, old barn which needs repairs, hard road frontage. $205,000. Call Nelson Ebersole, 717-867-4487.
SUBURBAN REALTY
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Annville, PA 17003
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145 acre dairy farm w/85 tillable acres, 55 stall milking barn, free stall barn, silos, and other accessory buildings.

SOUTHERN CHESTER COUNTY

160 acre dairy farm featuring 110 level tillable acres, milking barn, free stall barn, stone and frame home in ideal location near Nottingham.

SOUTHERN YORK COUNTY

139 acre land of which 98 are tillable, situated near Norman Wood Bridge

FREDD-EDDY Realty, Inc.
Quarryville, PA
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REAL ESTATE

ADAMS COUNTY

Dairy & layer farm, large brick 6 bedroom home; dairy barn, silo, 33,400 bird layer house, $310,000. Will sell separately, layer house & 20 acres for $110,000, dairy operation & 70 acres for $175,000. L-3162-2 Rodgers.
KEY REAL ESTATE
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717-334-8144
717-846-4810

REAL ESTATE

FARM FOR SALE SNYDER CO. PA.

122 A (approx.) 60 A tillable 55 A good timber, large meadow w/stream Nice 2-story 2 family home, early possession Owner financing possible
717-658-3352 or
write:
RD 2 Box 50
McClure, PA 17841

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Many new farms and real estate listings for the new year.
Lake Country Farms
Harry Pettingill, Jr., Broker
2158 Rt. 89
Seneca Falls, NY 13148
315-568-9708

CENTRAL PA FARM & LAND PARCELS

Over 35 listings including operating farms, farmettes, rural land and recreational land. Call or write for a free list. **Watch for complete farm inventory ad next week or refer to last weeks edition.**

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Fred Strouse (814) 364-1705 (Lewisburg) Larry W. Platt (717) 568-5563
Don Myers (814) 422-8111 (Bedford) Richard D. Reed (814) 839-4271
Mel Rockey (814) 466-6688 (Huntingdon) Rachel Port (814) 669-4194

KISSINGER LEONARD & ASSOCIATES Realtors
Frederick J. Kissinger, Realtor
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State College, PA 16801
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CUMBERLAND COUNTY

122 Acre Limestone farm - 115 Acres are tillable. 20'x70' Fickes Silo with unloader & bunk feeder for steers. Stream & lots of road frontage. Brick & Stone two family house. Brick part has 3 bedrooms & is in excellent condition. The stone part has 4 bedrooms & 7 fireplaces. Ideal House for Restoration!

Located just west of Carlisle on Route 641. Priced at $349,000.

Owner will consider selling the homestie with less acreage at a lesser price! Call for details- 717-665-2401 or 717-397-8174.

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112 S. Main Street
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11 acre horse and 13,300 layer operation, fine old 3 bedroom farm house.

17.5 acres - Gentleman's horse farm, 4 bedrooms, 2 bath, brick and frame home.

103 acre general farm - Large barn and tobacco shed, stone and frame home only $220,000. call Harry Allen for details 367-3365.

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Franklin County - 77 A. house, barn, 60 A tillable. Asking $125,000. Other farms and land.
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REAL ESTATE

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REDUCED

85 acres, $89,500, 7 room house, oil heat, 4 bay barn, other buildings, stream, road frontage, 12½ percent. You can afford.

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99.9 acre dairy farm with 40 comfort stalls, pipeline milking system, 20x60 silo and modern 4 bedroom dwelling. Won't last long at $310,000.

126 acre dairy farm, stables needing modernized but out buildings and dwelling in excellent condition. Owner financing.

77 acre operating dairy farm with 46 Holstein size stalls. Over 50 acres tillable with lush pasture and strong stream, asking $3,500 per acre.

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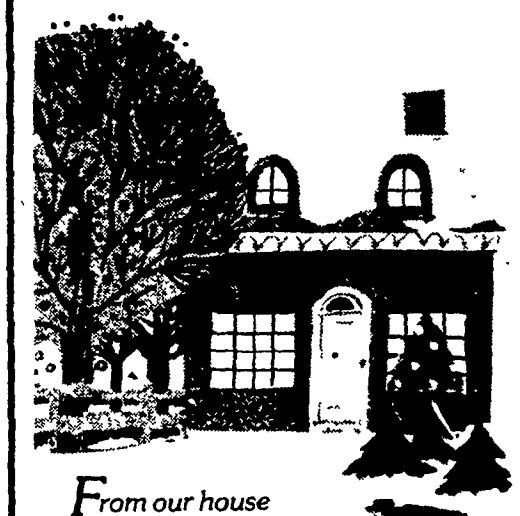

From our house to yours, we wish you all the best for a joyous Noel!

MERRY CHRISTMAS & HAPPY NEW YEAR

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50 acres all tillable, old house with fireplace and crane, 50x100 barn, horse, beef or pig farm. ⅓ down. Owner financing on balance.

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Sullivan County

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105 acres All tillable Includes house, dairy barn, silo Delta, PA (York Co south of Rt. 372).
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216-221-9090

64 Acres, Lancaster Co.

64 acre dairy and beef farm, located in Warwick Twp., approx. 56½ acres tillable, 7½ acres meadow, type soil - limestone, terrain- mostly level to very gentle slope, 2 story frame bank barn with attached steer and corn barn, 2½ story double frame dwelling and 4 car detached garage, both very good condition. Low interest owner financing.

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120 acres/100T good home financing	$120,000
82 excellent cow stable/silos 2 homes #1 soil Financing	$375,000
195 acres - older home $20,000 Down #1 soil	Priced $60,000
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500 ACRE FARM about half tillable, gently rolling terrain. Three homes; ten, five and four rooms. Two concrete silos at new 40x100 barn. $144,500 terms arrange. CALL TRUMANSBURG OFFICE FOR THIS AND OTHERS. FREE CATALOGUES. 607-387-9303

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INCLUDES 50 COWS, tractors and all equipment; 196 acre farm with some river bottom land, PH 6.8-7.2. Additional land available Barn has 50 ties, 2 unloading silos, calf area. Tastefully remodeled 4 bedroom home with Birch cabinet kitchen; neat, homey, freshly papered & painted ALL FOR $175,000 with $40,000 down and owner terms. FIRST TIME ADVERTISED! FOR APPT CALL 315-769-9380 or GOUVERNEUR OFFICE.

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62± acre general farm, private setting, large, 12 room home, coal or oil heat 30x60 bank barn, 35 tillable, 15 pasture, 10 wooded Possible owner financing, 25% down, 12% interest $79,000

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Lykens Valley 160 ± acre operating dairy farm, new 40 stanchion barn plus 40x100 hay storage barn, new 20x70 silo stream borders, large 6 bedroom home, secluded $350,000.

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49 acres secluded but near I-81 15 tillable, balance wooded, some timber, excellent deer hunting, possible terms at 12% interest. $39,000

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Northwest NJ Dairy Farm

One of Sussex Co. bettery dairy farms for lease. Ideal for family operation, 460 acres, 250 tillable, 52 lg. milking stanchions, room for 100 head young stock, excellent lg. barn, holds 30,000 bales hay, barn cleaner, power generator, two 60x16 silos, storage barn, lg. implement shed, 1 lg. 4 bedroom home and 1 small 2 bedroom home, both well insulated with hot water heat. It may be possible for right lg. family operator to take a management position on an adjoining beef farm. Terms can be arranged. Available Apr. 1, 1982. Arrangements may be made for earlier occupancy.

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F1-33 DAIRY FARM, 100 acres, 60 tillable, Snyder Co Single 8 herringbone milking parlor Good buildings 70 free stalls 800 gallon bulk tank Presently milking 40 cows Very nice 4 bedroom home $170,000

F1-26 Perry County, 180 acre general farm Presently beef/calf operation 4 bedroom 1½ bath house, owner financing available on $100,000 Full price is only $221,000

LO-77 Wooded tracts in Juniata Co Near McAlisterville 10A & up Underground utilities $1200/A Less for larger tracts Generous owner financing. Cash discount Call Don

F1-02 103 acre run down farm, log house, approx 20 acres tillable, excellent hunting area $69,000

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125 acre farm, over 60 good tillable acres, barn holds 35 cows plus 7 heifer stanchions plus room for started calves, bulk tank, barn cleaner, two 14x30 silos, 3 bedroom house with 1½ baths, oil and wood combination furnace, plus other buildings for machinery, located on good road with good milk market. Priced at $75,000 for quick sale, $30,000 assumable mortgage at 10% to reliable party. A real nice farm, must be seen! You won't find any like it for this price.

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You will stop when you see this 396 acre farm with 230 tillable, 64 tie barn, pipeline, barn cleaner, bulk tank, 4 silos, heifer barn w/cleaners, 2 houses good condition. $250,000.

FAMILY FARM

Excellent 360 acre farm, 155 tillable, barn ties 117 head + pens, pipeline, bulk tank, 2-20 x 50 silos w/unloaders, barn cleaner, all produce. Good 3 bedroom house and 3 bedroom mobile home. $95,000 assumable mortgage. Price $165,000.

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Roger McKee Broker

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Easy Owner Financing

Attractive 15-acre Pa. homestead with easy owner financing. 5 acres open, ample firewood. Very good 4 bedroom and 2 bath home, wood-fired boiler plus separate backup furnace, mountain views! New double garage. Fronts state highway. A winner at $55,000, only one-fifth down, owner financing.

Shenandoah Valley Dairy

Quality 335-acre Va. farm has 2 homes. Several adjoining barns—double 4 Herringbone milking parlor, with feeders, 1,500 gal. bulk tank, furnace, mixer, 3 conveyors, 2 silos, unloaders, 151 free stall barn, nursery, large equipment barn, shop. Good 8-room 2-bath farmhouse, 2nd home needs work. On highway, near Interstate. Reduced for quick sale to $750,000.

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FOR SALE

2 acre property with large 10 year old brick house, barn, and 3 car garage.

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Call 717-354-9979

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Take a look at this beautiful 128 acre Cumberland County dairy and beef farm (Dairy barn needs remodeling) New modern beef barn, 40x104 w/100' bank feeder, new 24x70 concrete stave silo w/unloader Meadow w/stream and pond. Large 4 bedroom frame aluminum sided home w/all conveniences. Call today for an appointment

77 acre dairy, 39 stanchions, large loafing area, room for expansion, 600 gallon bulk milk tank, stream in meadow, modern home w/all conveniences Located in Southern Lancaster County

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95 acres, barn, garage, hog pen, milk house, silo, wagon shed, implement shed & 5 bedroom frame house. $102,500.

84 acres. Limestone soil, 2 story brick colonial house. Excellent location with additional acreage available for purchase or lease. $145,000.

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27 acre farmette. Modern masonry house, bank barn, stocked farm pond. Call Mr. Crawford.

PERRY COUNTY

109 Acres Woodland. Call Mr. Orris.

30 acre farmette. Good buildings. Spring and stream. Call Mr. Orris.

40 Acres Land, 17 wooded, 1300' road frontage. Call Mr. Benner.

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147 acre hog and beef. Brick house, barn & silo. Call Mr. Niesley.

SNYDER COUNTY

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Near Oxford

90 Acre Dairy Farm
90 Acre Dairy Farm
50 Acre General Farm
68 Acre General Frm
50 Acre General Frm
90 Acre, no bldgs.
51 Acres, no bldgs.
acres stone home, barn, tenant house

Centre County
Near Lamar

01 Acre Dairy Farm
70 acres tillable
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qualified buyers.
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Pa. 17557
717-656-7789

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BEAUTIFUL FINGER LAKES AREA

102 acres of easy working land metal barn, 4 bedroom home, new roof, siding, windows, insulated, furnace, full bath.

160 acres, dairy barn, 3 bedroom home, owner financing to reliable party.

10 acres, mostly pine, large enough for saw logs, drilled well, 2 cabins, pond.

384 acres, 3 silos, free stalls, 3 on a side parlor, 5 tractors full line of machinery, 5 bedroom home, new wood furnace. 80 milk cows plus young stock

123 acres, 85 acres of real good vineyard, 3 houses, mobile home, 7 tractors, truck and all necessary machinery. Barn large enough to house all machinery. All machinery like new.

J.R. ALLEN
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FARMS & INVESTMENTS
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NEW FARM LISTING - 180 acre farm just west of Tioga County line. Approx. 100 tillable. Good potato ground. 60 acres pasture. 52 cow barn. Two 18x60 silos and a 16x40. Pipeline milker, Nice 3 BRrm ranch house. Approx. $135,000 of existing FHA money. Priced to sell at $160,000 PH: 717-662-2138 M-211

HUNTERS DREAM - 80 acres mostly wooded in the heart of Tioga Co. Great hunting for deer, turkey and grouse. Owner terms 20% down 11% interest 20 years with 10 Yr. balloon. Only $34,000 w-564 PH: 717-724-5921

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28 Ac. gen. nice setting, all till. $69,000
108 Ac. gen, stream, Danville $97,000
126 Ac., potato, stream, Col. Co. $139,900.

Starter, nice, dairy Juniata $155,000
128 Ac. dairy Northumberland $200,000
103 Ac. orchard setup Snyder $275,000

BRADFORD CO.
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LANCASTER CO.
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JUNIATA CO.
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178 Ac. near Raystown Lake $1100 per ac.

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will be found on Page B31

REAL ESTATE

REAL ESTATE

157 ACRES all open, complete modern beef cattle operation Hagerstown soil, high fertility, Ph 7.2 Macadam road frontage, 2 dwellings, two story, good condition. 40x90 two story barn with automatic bunk feeders. Modern 40x80 feet breeding barn with large oak fence corrals and holding area. Three concrete stave silos, concrete block machine sheds and storage buildings Good fencing. Asking $285,000 - seller financing.

103 ACRES level all open, high fertility, Hagerstown soil, Ph 6.8, macadam road frontage, two story nine room dwelling, 1800 sq ft., two story 45x84 wood bank barn, 18x55 Ribstone silo with unloader, storage and other buildings. Present use beef, could be converted to dairy. Located ¼ mile from above described farm. Asking $195,000 - seller financing.

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86 acre dairy farm (near Hershey), very good soil, 80T, pasture, stream, features new 100 cow free stall w/center auto bunk feeder & drive thru feeding. 20x70 conc silo w/unloader & conveyor system, 2 story bank barn w/25 tie stalls, also heifer & maternity area. 800 & 400 gal. bulk tanks, 2 car garage & shop, corn crib, machine shed, lovely 2½ story home features large kitchen, formal DR, LR & playroom, 3 bdrms & bath, 2 open porches. Call for details $360,000.

MONTGOMERY COUNTY
55 acre general farm featuring lovely log & stone home w/modern kitchen, center stairs, 5 rooms with livingroom fireplace, 5 bedrooms & bath, 2 car garage, bank barn, 2 machine sheds, corn crib, silo & much more. A very lovely setting, **$385,000 Reduced to $300,000.**

BRADFORD COUNTY
NEW
81 acre dairy farm with lovely frame colonial with 10 rooms & bath 26 stall barn, barn cleaner, 2 story garage & out buildings. $66,000.

4 Acres w/lovely 2 story home, kitchen, DR, LR, 4 BR & bath, fruit & nut trees. Asking $33,300.

NORTHUMBERLAND CO.
158 acre, 97T, General Farm lovely 4 bedroom home, kitchen, living room, dining room & bath, 2 story barn, silo & outbuildings. Also 2nd home w/eat in kitchen, living room, 2 bedrooms & bath, all for $158,000 #342.

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SALES AGREEMENT

180 acre, 150 tillable, level land to gentle rolling, beautiful big new rancher w/fireplace, barn remodeled w/new addition, 58 tie stalls, could easily add 16 stalls, bulk tank, dumping station, 18x65 concrete stave silo w/unloader, heifer barn & machinery shed Located on macadam road Sets very nice, must be seen to appreciate All for **$225,000.** Cattle & machinery optional. Additional acreage available for rent.

SUSQUEHANNA COUNTY
140 acre dairy farm, 95 tillable, gently rolling to almost level. A picture clean farm operation with 42 stanchions, stainless steel pipeline, 2 box stalls, 6 calf stalls & enclosed spreader pit Two 20 x 40 concrete stave silos with unloaders, 650 gal bulk tank, 2 large poll sheds for machinery & heifers, frame 8 room 2½ story house, modern kitchen, 1½ baths, carport & patio Must be seen to appreciate $225,000 #324

NEW
437 acre dairy farm, 50 stall barn with pipeline, bulk tank, barn cleaner & 18x50, 14x50 & 12x40 silos Heifer barn & machinery shed, shop & garage. Lovely stone & frame Colonial home with modern kitchen, 8 rooms & 2 baths Also new second home with 5 rooms & bath. Call for details. $325,000.

74 acres, 67 T, features 106 comfort stall barn, 1000 gal tank, pipeline, 89 free stall heifer barn, 30x70 concrete silo, solid 2½ story 4 bedroom home w/bath Asking $165,000 Also renting additional acres.

BUCKS COUNTY - NEW
100 acres of level Tinicum Bucks County soil, 95T., features lovely 2 story double home w/11 rooms & 2 baths. 2 story bank barn w/50 stalls 1 mi road frontage A good operating dairy farm. $360,000.

Lovely 2 story colonial home w/4 bedrooms 2 baths, 2 car attached garage, beautiful landscaping 5 acres partly wooded picturesque setting $129,900. Additional acreage available.

NEW
145 Acre jug milk farm superb facilities, lg. store & sales area, 3500 gal. milk holding capacity, modern processing facility including ice cream making, 185 cow free stall, 5 lg. silos, lg. heifer facility, 2 double houses & 1 single home, shop, storage sheds, outbuildings, 200 cows, 250 heifers, full line of machinery additional rental acreage available. Pays for itself. Call for details. $1,5000,000.

SNYDER COUNTY
101 Acre dairy farm features lovely home w/large kitchen, 1½ baths, 4 bedrooms & laundry, 70 freestall barn w/box stalls, 8 stall Herringbone parlor, auto feeders, 20x60 concrete silo w/unloader, 40x100 pole building, bank barn & much more, ~~$180,000~~ Reduced to $170,000 #328

96 acre general farm, 60 tillable with nice 2½ story frame colonial double home, 11 rooms, 2 baths, 2 kitchens, all in good condition. Large barn set up for 10,000 broilers, trout stream on property, good hunting & fishing area. ~~$130,000~~ Reduced to $120,000. #307.

188 Ac general farm w/68 A hard timber, good 4 bedroom home w/kitchen, LR & Bath, very nice laying ground & much more $175,000.

JUNIATA COUNTY
REDUCED
160 acre general farm, 125 tillable, featuring lovely 2½ story 8 room farmhouse with country kitchen, 3 floor 15,000 bird broiler house, 100 x 80 bank barn & 30 acres box wire fencing Concrete silo & large bunk silo, good ground All for ~~$250,000~~ Reduced $210,000 #320

10 acre w/lovely Cape Cod 8 room & 2 baths, full basement in a very nice setting, excellent for hunting or vacation home, nice view, **$65,000. #283.**

COLUMBIA COUNTY
180 acre dairy farm, 118 tillable, 36 stalls, bulk tank, several sheds & second small barn, corn crib, 2 silos & grain storage bins. Lovely 2 story farm house with 9 rooms & 1½ baths, remodeled. Slightly rolling & level good ground. ~~$225,000~~, make an offer, reduced $210,000. #310.

20 acres with small barn, pond, wooded and open ground Nice area Financing Available Asking $45,000

NEW JERSEY
80 acre dairy farm, gently rolling to level, streams & pond. 2½ story home with 4 bedrooms & 2 baths, large remodeled kitchen, dining rm., & laundry. 60 stall barn & 80 freestall milkhouse, bulk tank, large shop, new large machinery shed & corn crib, 14x40 concrete silo & 200x25 trench silo. $250,000.

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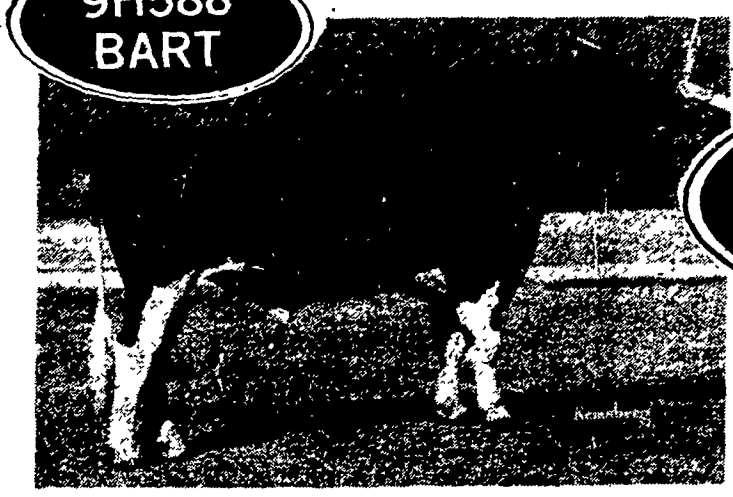
9H588 BART



FANCY TYPE

+1249 P.D. Milk

BART and NUGGET are +$147 and 3.8% average test level

9H588 Dandy-Lea Bicentennial BART, VG (85)
USDA 7/81 RIP 92% Rpty. 61%

38 dtrs., 32 herds	17625M	3.8%	670F
Pred. Diff. '74 +$147	+1249M	-.04%	+39F

HFA Type Comparison - Not Summarized to date

9H538 NUGGET

+.06% on Test

Plus On Type

+1052 P.D. Milk

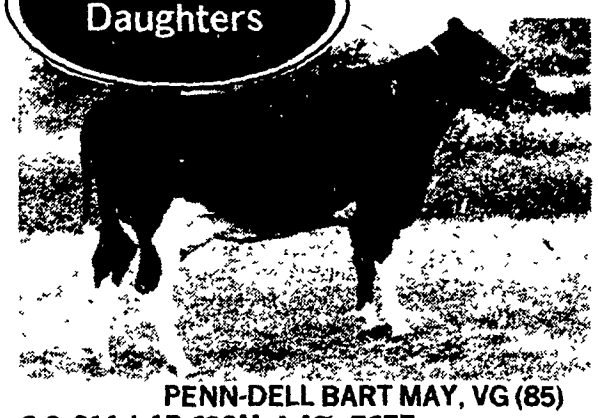
9H538 Zion-View Elevation NUGGET, VG (85)
USDA 7/81 RIP 2% Rpty. 73%

48 dtrs., 43 herds	17119M	3.8%	652F
Pred. Diff. '74 +$147	+1052M	+0.6%	+47F

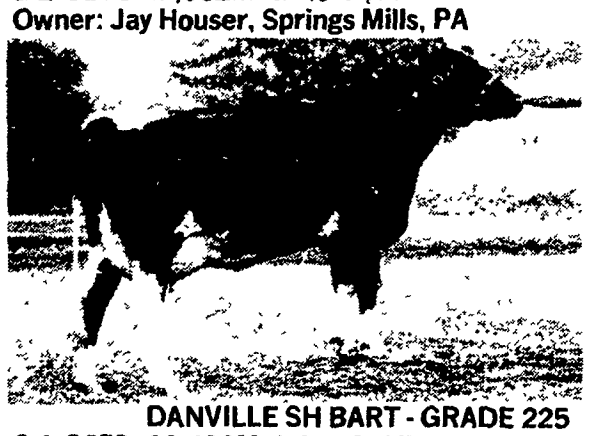
HFA Type Comparison 7/81
Pred. Diff. +0.26, Rpty. 56%

Strong Cattle, Outstanding Udders and High Test

BART Daughters

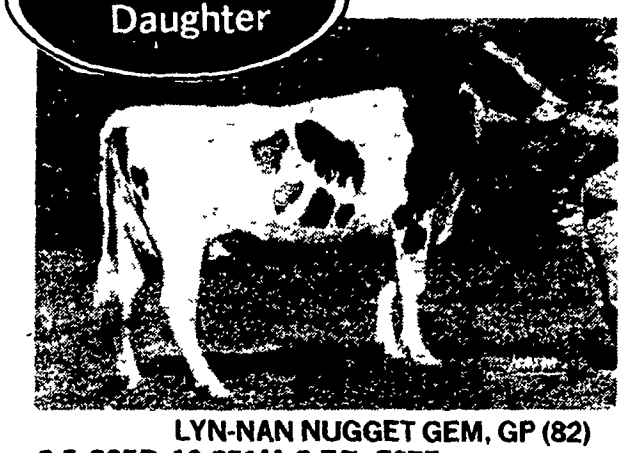


PENN-DELL BART MAY, VG (85)
2-2 311d 17,632M 4.4% 767F
Owner: Jay Houser, Springs Mills, PA



DANVILLE SH BART - GRADE 225
2-1 365D 18,502M 4.6% 853F
Owner: PA Dept. of Agriculture, Danville, PA

NUGGET Daughter



LYN-NAN NUGGET GEM, GP (82)
3-5 305D 19,851M 3.7% 727F
Owner: Leroy & David Coleman, Montrose, PA

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By John E. Brockett
Farm Management Agent
Lewistown Extension Office

Capital Purchases - Depreciation 1981 Style

Due to the 1981 tax law changes, depreciation no longer offers the flexibility to tax planning it once did.

It is still an item that has some value, but the range in depreciation that can be used with new purchases has been severely curtailed. The new law has pretty well set the depreciation rates for all types of depreciable farm assets. Each item will fall into one of three predetermined categories as to depreciable (or cost recovery) life.

The new depreciation system is called an Accelerated Cost Recovery System. As far as I can tell from the literature, the old 20 percent first year option, both types of accelerated depreciation, and the option to set the life of an item based on historical use are no longer available. This new law is effective for items purchased since January 1, 1981.

The ACRS method sets the percentage of the original cost of an item that can be taken each year. Thus an item in category 1, has a recovery allowance (depreciation) of 25 percent the first year, 38 percent the second year, and 37 percent the third year. Category one would include cars, trucks, and breeding hogs but not dairy cows. These items would have a life of 3 years.

A taxpayer can choose to use the ACRS straight line method and select a life of 3, 5 or 12 years (not 4 or 7 or 10). In this case, only 50 percent of the straight line annual depreciation can be used in the first year. For both the regular and straight line ACRS methods, it appears as though the same recovery allowance (depreciation) could be used regardless of when in the year the item was purchased.

Category two would include the bulk of farm assets. All machinery, equipment, and dairy and breeding livestock except hogs (and certain horses) would fit into this category. Also included in this category would be single purpose agricultural structures such as silos, milking parlors, etc.

Category two recovery (depreciable) life is 5 years. The regular ACRS percentages are 15, 22, 21, 21, 21 for the five years. Again the 15 percent can evidently be taken regardless of when in the year the item was put into service. A taxpayer can use the ACRS straight line method as with category 1 items. The straight line lives are 5, 12 or 25 years.

Category three would include all multipurpose buildings such as machine sheds, tenant house, etc. Cost recovery (depreciation) is a bit more complicated for this category than for the above two. For these items it does make a difference as to what month the item it put into use. The taxpayer may have to recalculate depreciation each year based on a percentage of the years allowable percentage dependent on when it was originally purchased. Recovery (depreciable) life is 15 years. The optional straight line lives are 15, 35 or 45 years.

One Life Per Class

It also appears as though the taxpayer will have to set the same life and method for all items from a category purchased during a given year. This may be a problem.

Example: you purchase a manure spreader, a tractor, a dairy cow, and a silo in 1981. They are all in category two. This means that you can either use the regular ACRS method (15 percent recovery for 1982, 22 percent recovery for 1982, etc.); the straight line ACRS method with a life of 5 years (10 percent recovery for 1981, 20 percent recovery for 1982 thru 1985, 10 percent for 1986); the straight line ACRS method with a life of 12 years or 25 years. If you desperately need to maximi tax write offs, that will be fine, use the regular ACRS method. B what if this causes a loss of erosi of tax free money? Twelve yea may be all right on the tractor a silo, but would leave a big depreciated balance for the da cow and spreader when those t were sold.

This may possibly be changed dairy cows may be moved Category 1 status. Or regulatio developed by IRS may not be stringent as the literatures terpretation of the law implies.

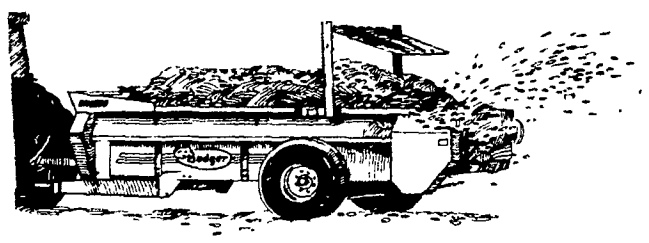
Md. tobacco prohibited in quota states

ANNAPOLIS, Md. — Maryland's 1982 tobacco auction season will open March 16 and run through May 6, making it the earliest in the state's history. The season dates have been set by the Maryland State Tobacco Authority at the request of growers, according to Agriculture Secretary Wayne A. Cawley Jr.

Bradley H. Powers, of the Maryland Department of Agriculture's Division of Agricultural Development and Marketing, says the crop of tobacco to be sold — grown in 1981 — is of "excellent quality and will come in at around 30 million pounds, which will be up a good from the 1980 drought reduced c sold at auction in 1981."

High demand and short suppl of quality Type-32 leaf resulted record high prices being paid the 1981 auctions, with the avera price at approximately $1.70 p pounds.

The 1982 auction season w begin Tuesday, March 16, and scheduled to close on Thursda May 6. Sales will be held on Monday through Thursday bas Auction sales take place on t Southern Maryland warehou floors located at Wayson's Corn Upper Marlboro, Hughesvill LaPlata and Waldort.



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Willow Street, Lancaster County

— Photo by Dick Anglestein

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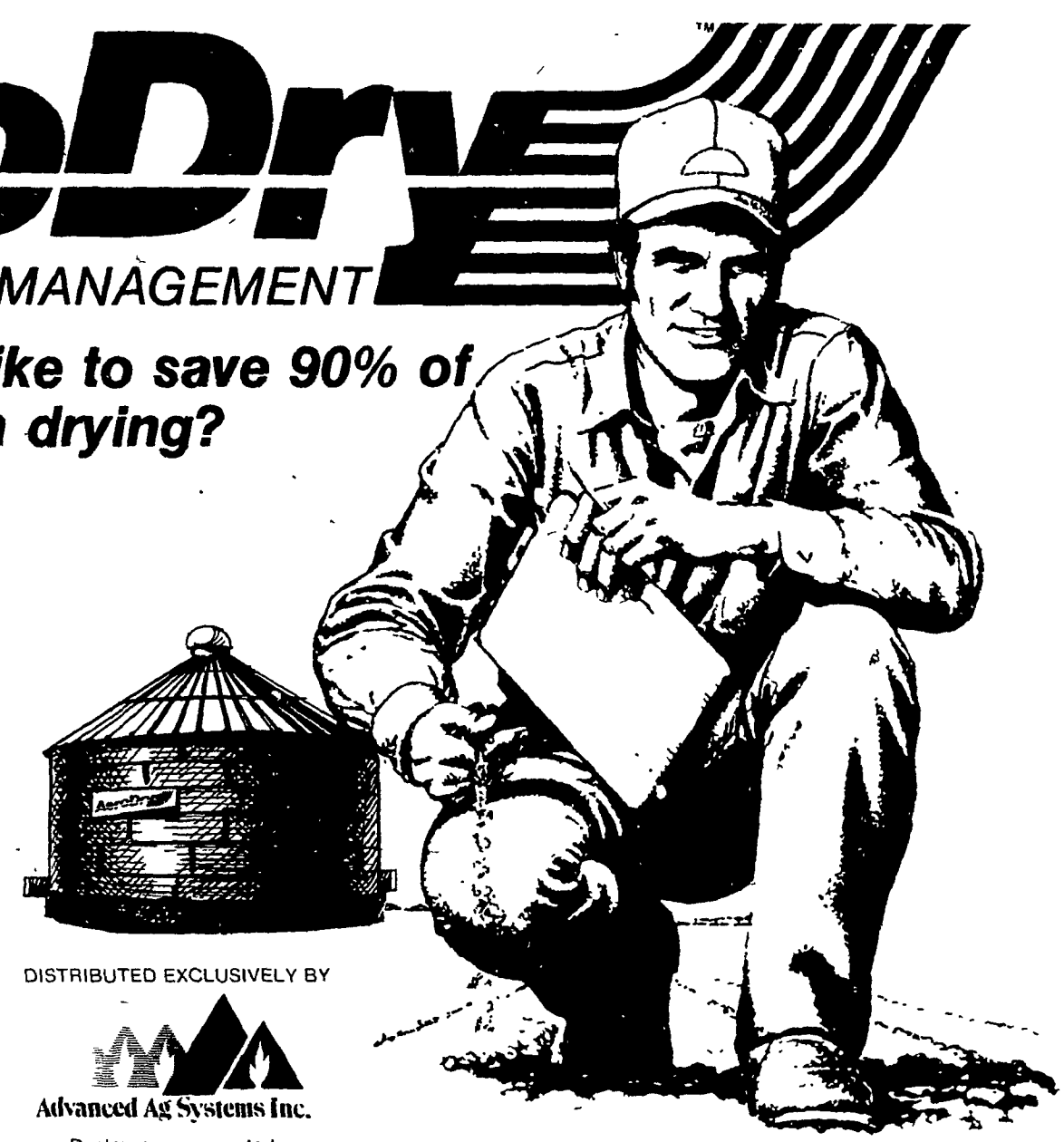

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Boucher retires after 41 years on Penn faculty

PHILADELPHIA — Dr. William Boucher, professor of clinical medicine at the University of Pennsylvania's New Bolton Center, will retire Dec. 31, 1981, after 41 years as a faculty member of the School of Veterinary Medicine.

When he joined the faculty in 1940, Dr. Boucher was associated with the school's ambulatory care unit, and later with the field service unit.

First based at the school's West Philadelphia campus, the unit took students to farms on the city's fringes and to New Jersey, for combined clinical and teaching purposes.

The clinic later moved to Media, — where the Bouchers themselves lived over the clinic for a time — and finally to the Veterinary School's large animal facility at New Bolton Center, where Dr. Boucher still lives with his wife, Doris.

While recognized and respected as an accomplished clinician and an able administrator, Dr. Boucher endeared himself to the thousands of students he taught as a memorable teacher.

Recognition has come to Dr. Boucher for his work both as a veterinary and teacher.

In 1979, the Pennsylvania Veterinary Medical Association selected him "Distinguished Veterinarian." In 1981, he received the Christian and Mary Lindback Award for Distinguished Teaching at the University. The Lindback awards are given each year to eight teachers selected at large from the entire University community. Dr. Boucher was cited by the Lindback Award as "a superlative teacher who has contributed immeasurably to student attainment of clinical acumen." In 1968 he also received the Norden Teaching Award.

Dr. Boucher, 65, passed his own fine grasp of clinical conditions and diagnostic procedures on to his students, emphasizing the importance of careful physical examinations, history taking and close inspection of farm premises.

Born and reared in Millington, N.J., Dr. Boucher attended Bucknell University and the Veterinary School of the University of Pennsylvania. He joined the U. of P. faculty following his graduation from the school in 1941. Dr. Boucher and his wife have five children.

The school honored Dr. Boucher last month with a "Boucher Day" at New Bolton Center during which papers on farm animal health were presented, followed by a dinner and reminiscences of Dr. Boucher's career at the school.

Gov't orders UFW payback

PARK RIDGE, Ill. — December 8, 1981... United Farm Workers leader Cesar Chavez has been ordered to pay back nearly a half-million dollars to the federal treasury for sums disallowed from 1978 grants made to UFW agencies from the Community Services Administration.

The grants were made to assist the union's Farm Workers Service Center build a microwave communications system, and subsidize UFW's credit union, and were challenged by Farm Bureau and a group of farmers and farmworkers in a lawsuit against the granting agencies — CSA and the Department of Labor/CETA. The plaintiffs charged the funds were illegally appropriated to help UFW organize farm workers.

The suit was settled a month ago on the determination that the agencies would themselves seek the return of substantial sums of the grants on the basis of a government audit called for by Rep. Henry Hyde (R-IL). The audit report challenged some $750,000 ins pending by UFW agencies.

American Farm Bureau Federation president Robert Delano said he saw the government order to return the funds as "a major victory for taxpayers and an important precedent for the principle of holding government spending to responsible accountability." He said he saw the government order as the culmination of months of activity by Farm Bureau attorneys working on behalf of farm workers as well as grower challenges.

CSA's order to return $427,000 of its grant funding of $805,000 came in a letter of December 1, to UFW agencies from Robert L. Trachtenberg, acting director of the Office of Community Services, Department of Health & Human Services, successor representative to the now-defunct Community Services Administration. Representatives of CETA are expected to make additional demands for the return of monies granted UFW agencies in 1978 to operate an educational program at UFW headquarters in LaPaz, California.

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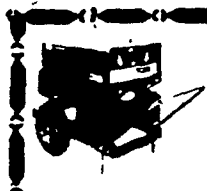
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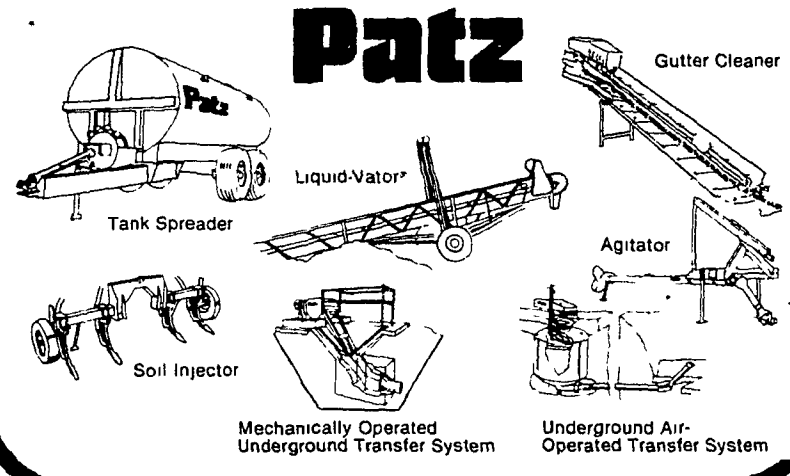

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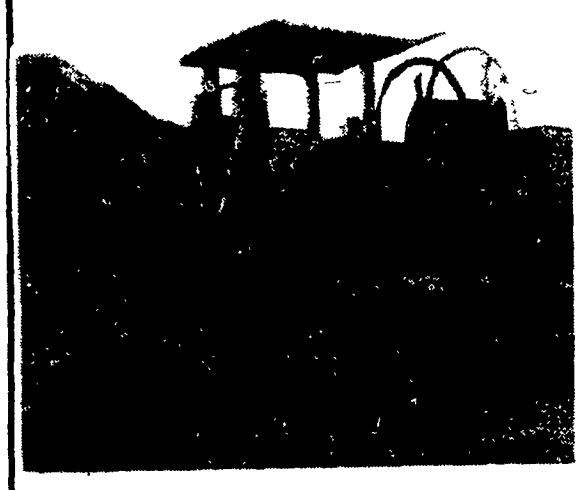
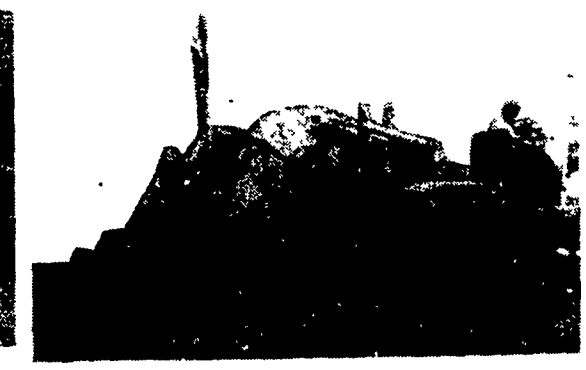
DRAINAGE PROBLEMS?

COCALICO EQUIPMENT HAS THE TWO MACHINES TO HANDLE YOUR DRAINAGE PROBLEMS.
★ Both machines Equipped with Laser Beam Grade Control

Drainage Pays High Returns

Investment	Typical * Annual Return
Land Drainage	21-46%
Farm Buildings	3-23%
Farm Land	11%
Stocks	7.4%
Bonds	6.1%

COMPARE
Even with the conservative figures shown here, it's obvious that land drainage should top farmers' lists of investment priorities.

★ We Stock Heavy Grade Tubing which Exceeds SCS Specifications. In sizes 4", 6", 8", 10" and 12".

NOW AVAILABLE
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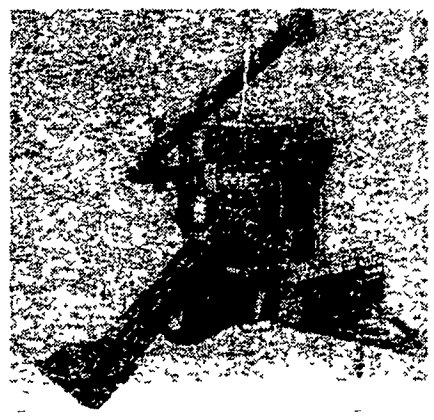
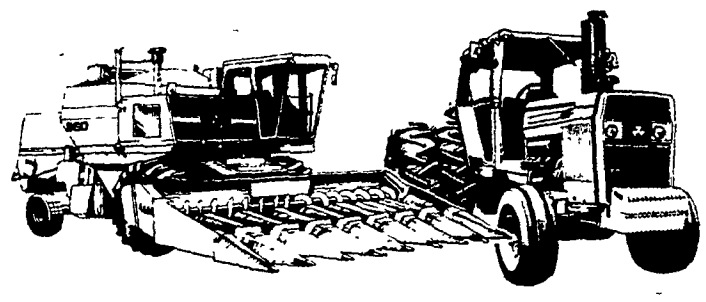
15% PRICE ROLLBACK IN DECEMBER

Plus Waiver or 13.9% APR Financing





That's right! All during December, we're rolling back prices 15% to MF dealers on every new Massey machine — and 25% on MF 4000 Series 4WD tractors. That means you should get some of the biggest savings your MF dealer has ever been able to offer.

Don't wait. Come in and buy now, because these savings apply only to new equipment purchased in December — just in time for year-end tax credits, too.

Choice of financing

If you buy now and qualify for financing through Massey-Ferguson, we'll make your deal even sweeter, with a waiver of finance charges 'til season of use, or 13.9% annual percentage rate financing for two years. It's your choice. See us now for all the details.

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industrial machines . . . . . March 1, 1982
Hay tools. . . . . May 1, 1982
Grain combines . . . . . August 1, 1982
Corn/bean combines. . . . . September 1, 1982

Used equipment savings too.

Waiver of finance charges and 13.9% financing options are also available to qualified buyers through MF on **used** machinery and equipment on our lot.

MF Massey Ferguson

Now more than ever, Massey makes sense.

Hurry! These price rollback savings are good only during December 1981

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Montour, Snyder, Union and Nor'd Co. DHIA complete year

WOODBINE — Montour, Northumberland, Snyder and Union Counties completed the DHIA 1981 testing year with 160 herds on test The four-county area included 8,566 cows

Montour County's 20 herds averaged 15,356 pounds of milk and 593 pounds of fat Carl Slater & Son of Bloomsburg topped Montour County in milk and fat with averages of 21,135 pounds of milk and 767 pounds of fat

Northumberland County s 32 herds averaged 14,733 pounds of milk and 566 pounds of fat The top producers for the county were Northumberland dairymen Fred and Tom Strouse The Strouses completed the year with averages of 18,747 pounds of milk and 754 pounds of fat

Snyder County producers turned in averaged of 15,258 pounds of milk and 584 pounds of fat on 48 herds Selinsgrove dairyman Glenn Moyer topped the county with 20 805 pounds of milk and 768 pounds of fat on 3 times a day milkings

Union County's 60 herds averaged 15,485 pounds of milk and 573 pounds of fat Wood Ann Farm, Inc of Lewisburg led the county with 20 495 pounds of milk and 768 pounds of fat, also on 3 times a day milkings

Those herds averaging more than 600 pounds, of fat are included in the following list.

Montour

Carl Slater & Son	RH	26 2	89 1	21.135	767
PA Dept of Agri	R&GrH	115 5	87 6	17,920	729
Clifford A LeVan	RH	19 5	88 7	17,874	712
Mar-Ja Farm	RH	138 5	91 5	16,242	665
Earl W Harris	R&GrH	52 6	85 9	18,174	651
Lundy Brothers	RH	36.5	86 4	16,711	651
Limestone Run Fm	R&GrH	90 9	87 0	16,473	612

Northumberland

F. & T Strouse	R&GrH	60 2	87 0	18,747	754
R Truckenmiller	R&GrH	55.3	90.5	19,708	725
Ernest L. Wolfe	RH	60 5	86 8	18,690	692
Bomberger & Sons	R&GrH	142 8	87 2	17,714	670
RMD Shultz Farms	R&GrH	70 0	86 9	17,740	659
Irvin Reynolds	R&GrH	69 8	84 5	16,952	659
P Buckwalter & Sons	RH	95.5	84.2	17,475	656
Shoch Manor Farms	R&GrH	104.5	87.9	16,424	620
Ernest Klinger	GrH	95.6	87 9	15,351	619
Jerry Smith	RH	47.5	87.0	17,355	618
Orville Shultz	R&GrH	45.6	89.0	15,946	608

Snyder

Glenn M Moyer	RD	40.1	90.6	20,805	768
Robert Ulmer & Sons	R&GrH	54 9	89.0	20,322	742
H L Narehood & Sons	R&GrH	58 2	90 1	18 400	713
Elmer & David Apple	R&GrH	58 1	89 3	18,511	711
Harold S Hassinger	RH	42 4	87 7	18,401	706
B & D Parthemer	R&GrH	75 9	89 6	18,703	703
George Krebs	R&GrH	39 0	87.2	17,451	681
W. Paul Womer	R&GrH	34 2	86.4	17,879	674
Glenn & Barb Carper	R&GrH	56.9	86.4	16,844	670
Ivan & Marian Wenger	R&GrH	50.5	86.3	16,150	669
Michael & Deb Ewing	GrH	33 6	90.2	17,090	665
Dale Hornberger	R&GrH	36.7	86.4	17,452	663
Sauderdale Farm	R&GrH	45 3	86.5	16,760	659
Randolph A Hoffman	R&GrH	28 7	83.5	18,624	656
Richard G. Nerhood	R&GrH	41 0	89.5	16,083	655
Urie & Dan Yoder	RH	52 7	87.0	17,039	652
Jesse J. Yoder	R&GrH	53 4	87.9	16,955	646
Joseph & Grace Blank	R&GrH	42 4	86.9	16,667	642
Leire Fry & Sons	R&GrH	127 8	87.5	15,935	625
C.C. Fisher & Son	R&GrH	69.4	91.8	16,349	617
John & Margaret Shirey	1 RH	57.5	86 7	16,336	615
Mabarbil Farms	RH	71.0	88 8	16,440	610

Union

Wood Ann Farm, Inc.	R&GrH	29 5	89.5	20,495	768
Clarence W Beiler	RH	61 9	87.4	19,003	766
Alvin H Martin	GrH	51 6	87.6	18,453	697
Elam Beiler	RH	34.7	92.3	16,614	687
San Be Farms	RH	64.8	86.5	18,775	685
Joal Ann Farms	RH	73 7	89.3	18,698	676
John F. Stoltzfus	R&GrH	43.1	86.9	18,115	675
Jonas R. Zeiset	R&GrH	39 5	88.9	18,313	668
Paul R Smith	R&GrH	39.3	83 4	17,704	657
Roland Hackman & Son	RH	49.5	86.7	17,183	645
Mark M Wehr	R&GrH	78 7	88.0	17,059	644
Leon M. Musser	RH	53 8	89.3	16,310	641
Leroy S Zimmerman	GrH	43 4	87 1	17,806	639
Amos J Zook	R&GrH	53 1	85.7	16,836	633
Hemlock Meadow Farm	R&GrH	48.9	85 4	16,809	626
Aaron R Zimmerman	R&GrH	37.7	88.7	17,929	622
Lewis & John Kenamond	RH	50 0	88 5	16,407	614
R.R. Klingler	R&GrH	47 7	87.5	15,682	607
Eugene Spangler	R&GrH	76.2	88 9	15 711	605
Dock View Dairy	GrH	106.5	88 0	16,206	603
Leroy Gotshall Jr	1 R&GrH	31 6	84.4	15,528	600

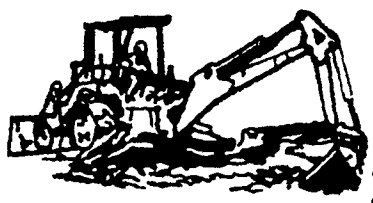
Monroe Co. DHIA finishes testing year

STROUDSBURG — Monroe County, well-known for its various resorts high in the Pennsylvania Poconos, recently completed in 1981 DHIA testing year.

The county's three dairy herds finished with averages of 12,509 pounds of milk and 464 pounds of fat. Each farm averaged 36.7 cows for a total of 110 cows on test in the county

EXCAVATING

BACKHOES • FRONT END LOADERS



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- Manure Pits

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TROY-BILT® Tiller!

ASK ABOUT OUR LAYAWAY PLAN MONTHLY PAYMENTS TO FIT YOUR BUDGET - DO IT NOW BEFORE PRICE INCREASE

All models in stock, full parts and service

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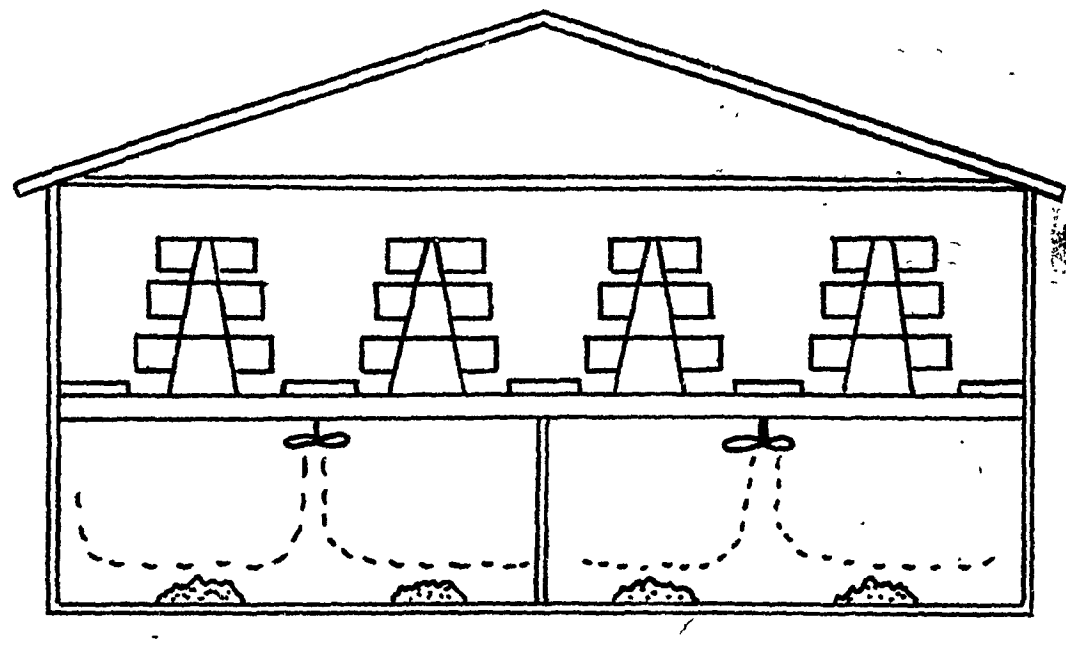
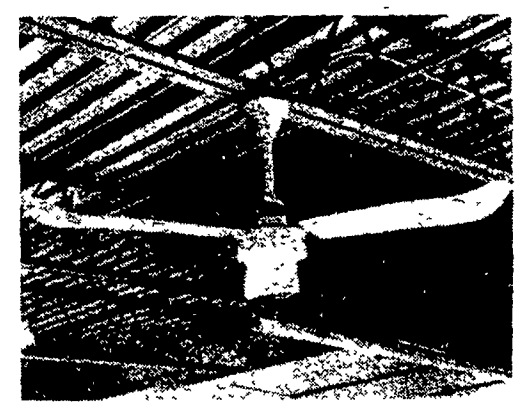
ATTENTION EGG PRODUCERS...

Do you have problems during the winter months with wet pits due to low air movement?



ENVIRO FAN HAS THE ANSWER!



Each down blowing fan uses less electricity than a 100 watt light bulb and does not blow the air across the manure as other fans do. Enviro Fans blow down on and across the pit, giving better circulation and drying pattern.

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SERVING PA, N.J. AND N.Y.

AGRI-EQUIPMENT INC., OFFERS COMPLETE
- SALES
- INSTALLATION
- SERVICE

Schuylkill Co. DHIA completes 55th year

SCHUYLKILL HAVEN — Schuylkill County DHIA finished its 55th year recently, with 32 whole-year herds and 4 Owner-Sampler herds in the Association.

The county's 1,545 cows on test finished with averages of 15,304 pounds of milk and 586 pounds of butterfat.

Miller & Rex, Inc. of Andreas capped the county production with 19,720 pounds of milk and 784 pounds of fat on 30.7 cows.

A registered Holstein owned by Carl A. Farms of Pitman finished with the county's high milk record of 28,349 pounds of milk.

The high fat record of 1,144 pounds of fat belonged to a Holstein owned by the Heisler Brothers of Tamaqua.

Members of the Schuylkill County DHIA include. President-Dennis Daubert; Vice President-Leory Heisler; Secretary-Treasurer-Wayne Kurtz; Directors-Paul Wagner, Kermit Kahler, Franklin Troxell, Wilbert Moyer, Leroy Heisler, Wayne Kurtz, Carl W. Brown, Dennis Daubert and Marlin Lesher; Supervisors—Steve Dietz, Anne Daubert and Susan Leiby.

Those Schuylkill County herds averaging more than 600 pounds of fat are included in the following list.

Miller & Rex, Inc.	R&GH	30.7	19,720	784
Heisler Bros.	R&GH	69.1	17,879	705
Paul & Ken Wagner	RH	57.6	17,683	674
Suntrail Dairy Farm	RH	47.4	17,631	668
Bruce Leatherman	R&GH	58.6	17,817	665
Carl A. Farms	RH	60.6	18,663	661
Wilbert Moyer	RH	36.5	17,589	648
Carl & Dale Heisler	RH	63.8	17,386	637
Marlin L. Daubert	RBS	36.7	14,850	618
Elam Z. Stoltzfus	R&GH	40.3	17,317	616
Melvin E. Stoltzfus	R&GMix	38.1	16,339	606
Dawn F. Rhein	RJ	65.6	12,943	606
Snyder Brothers	RH	79.5	16,279	602

no finance charges for 11 months

Buy one of our new Case farm tractors now . . . finance it through J I Case Credit Corporation . . . and finance charges will be waived for eleven (11) months from date of purchase.

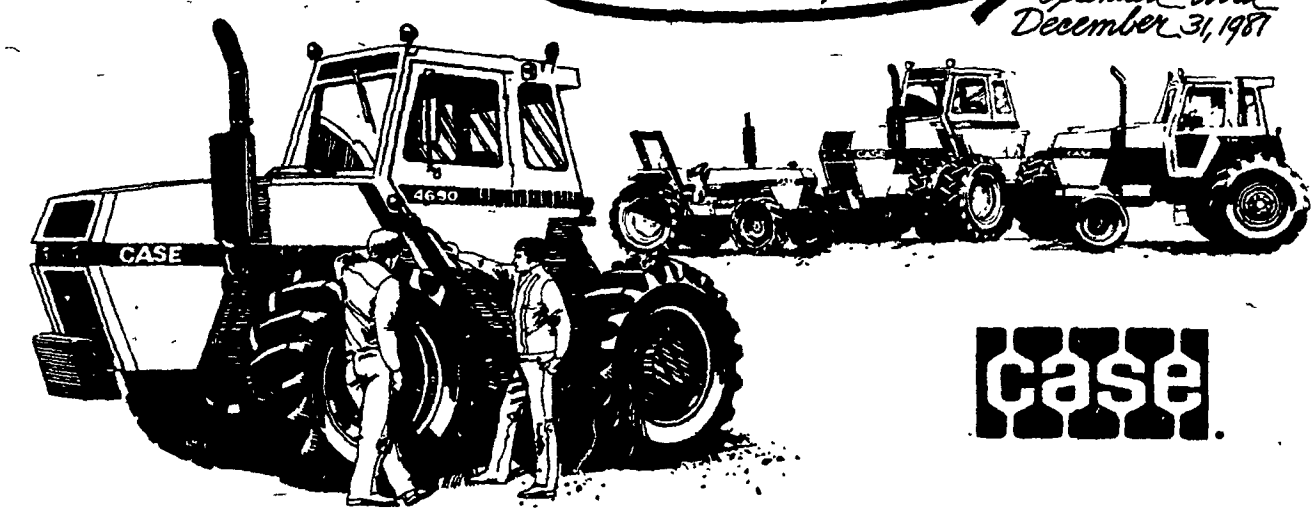
OR choose a Case cash rebate ...

If you would rather have a cash rebate and you buy **any** of our new Case farm tractors listed on the chart . . . Case will send you a check for the dollar amount shown on the chart for the model you buy. Rebate may be applied toward your down payment. NOTE: Government Agencies/Departments do not qualify for rebates.

Eligible Model	Cash Rebate
1190, 1290, 1390, 1490, 1690	$1000
2090, 2290	$2000
2390, 2590	$3000
4490, 4690, 4890	$4000

Waiver of finance charges on used farm tractors.
Buy one of our **used** farm tractors, **any** make . . . finance it through J I Case Credit Corporation . . . and finance charges will be waived date of purchase until June 1, 1982.

Offers valid November 1 thru November 30, 1981 → *Purchase date extended thru December 31, 1981*



case.

NOW IS THE TIME

To Take Advantage of These Special Programs! Choose Between Waiver of Finance or Cash Rebate, But Don't Wait, Because Programs End Dec. 31, 1981. See Your Local Dealer Now.

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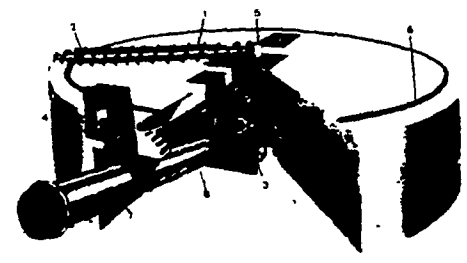
Laidig Bottom Unloader
for Haylage - Corn Silage
High Moisture Corn

The Laidig automatically unloads all types of silage

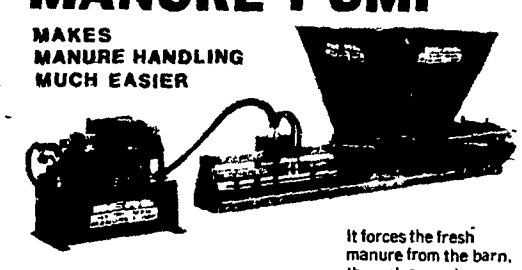


The Laidig unloads whole plant silage of gases, legumes and mixtures as well as shelled corn, ground ear corn and other whole or ground grains from oxygen controlled structures.

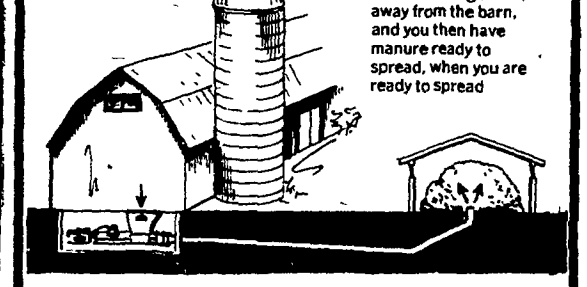
The heavy-duty sweep arm pivots from the center of the silo and is driven by a positive sprocket wheel drive. It conveys silage rapidly to a hopper at the center of the silo where it falls into the exit auger and is carried outside. Unloader operates independent of the silo wall. Forage is under-cut smoothly and efficiently allowing the silage to exit evenly.

BERG HYDRO-MAN MANURE PUMP

MAKES MANURE HANDLING MUCH EASIER



It forces the fresh manure from the barn, through an underground pipe, to the outside storage area, away from the barn, and you then have manure ready to spread, when you are ready to spread



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Farm Talk

Jerry Webb

Fast food generation

Do you ever get the feeling that the fast food industry is trying to replace the family dinner table? That its ultimate goal is to completely take over the feeding of America's people?

It hasn't happened yet, but given enough time and the current trend, there's little doubt that mom's cooking will be replaced by some fast food creation in a plastic box complete with napkins, salt and pepper, a packet of ketchup — everything but the Alka Seltzer.

I can see the time when youngsters will grow up not knowing the joys of good home cooking, and instead of bragging about their mother's cooking they will debate the merits of the various fast food outlets.

Fast food restaurants are very perceptive when it comes to understanding the American mind. They study the trends of working mothers, school kids and busy families that lack the time and the motivation to gather around the dinner table two or three times a day. And so they offer in foil and plastic a variety of food items ranging from your basic hamburger to make-believe spare ribs. There's hardly a food entree that some fast food organization hasn't at least experimented with to see if it can be sold in a ready-to-go package.

While hamburgers and cheeseburgers are still number one and number two, it's interesting to note that number three and number four are a ham and cheese sandwich and a plain ham sandwich. Then there are all of those other combinations like Canadian bacon, beef steak, chicken, fish, sizzle chops, and on and on.

What was once a simple hamburger and french fry business has turned into a 24 hour a day operation providing all your daily needs from a cup of coffee to a full dinner. And it's still ready in a hurry and packaged to go.

I remember quite vividly my first visit to a McDonalds. That was back in the late 1950s in Missouri and I was attending a wedding in the state capitol. Following a rehearsal, we went out for a quick bite and someone directed us to McDonalds.

There it was, looking like a porcelain gas station, with big yellow arches holding it up. As I recall, hamburgers were about 15 cents and french fries were a dime and they were made from real potatoes right on the premises. It wasn't home cooking but it was quick and cheap, and it met a nutritional need ... filled ... old habit.

Now those fast food restaurants are everywhere, springing up like gas stations at busy intersections, touting their products on television and in the newspapers and offering all kinds of incentives including games, special glasses, cash prizes, comic books, and trick or treat coupons.

It's interesting to note that the generic name that is applied to these places has been and probably always will be fast food restaurants. I suppose that designation excuses a multitide of sins, including too much grease, not enough flavor, and more wrapping than content.

I've often though at the conclusion of one of those gastronomic experiences that if possible I might be better off to eat the packaging and throw the food away. There would be more of it and it might even taste better.

It's not that I'm against fast food restaurants; they clearly have a place. But when I realize that somewhere in the future they may be the only place to eat, I get concerned.

When the current generation grows up on McDonalds and Burger Kings and Roy Rogers and all of those others, and only occasionally gets the rare treat of a home cooked meal, what will another generation do? Will our society become populated with people who won't realize that beef also comes in roasts and steaks? Or that a whole ham properly prepared and served with the right additions is much tastier and more nutritious than a ham sandwich and fries.

And will the job of eating home cooked foods with all of their ethnic and regional variations be replaced by the corporate hamburger, reconstituted and frozen french fries and a shake that contains no dairy products?

Despite a recent study that supports the nutritional merits of fast food, I still hope for the continuation of home cooking. I hope that children — boys and girls — will still learn to cook and that a fast food dinner will be the exception rather than the rule — reserved for the occasional time when nobody in the family has time to cook.

Maybe I long for a simpler time — a bygone day with family gathered around a dinner table piled high with the best of agriculture's abundance.

Somehow I just can't picture that table loaded up with today's fast food cardboard containers and foil wrappers.

USDA announces CCC interest rate change

WASHINGTON, D.C. — Beginning Jan. 1, the interest rate on Commodity Credit Corporation loans will be set at the rate charged CCC by the U.S. Treasury during the month that the loan is issued, according to Secretary of Agriculture John R. Block.

Loans disbursed since April 1, 1981, and which have interest rates subject to change, will have their interest rates adjusted Jan. 1. These loans, which currently have a 14.5 percent interest rate, will be adjusted to the interest rate charged CCC by the Treasury in January. Previously, CCC interest rates were set semi-annually — on April 1 and Oct. 1.

The interest rate paid by CCC has declined from a peak of 16.75 percent in October to 13,625 percent this month. Farmers should benefit from this downward trend in interest rates, Block said.

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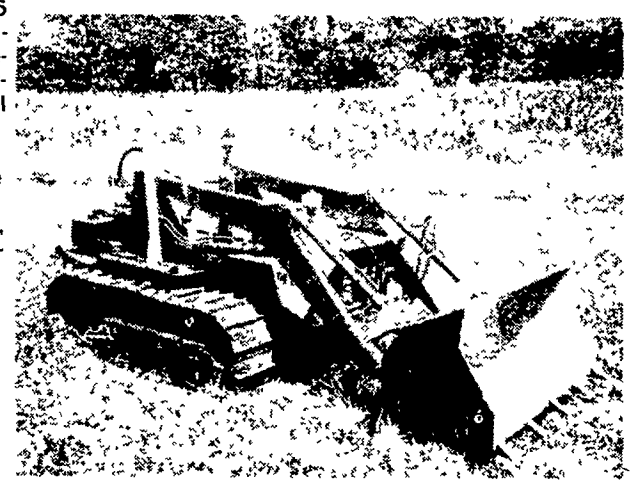

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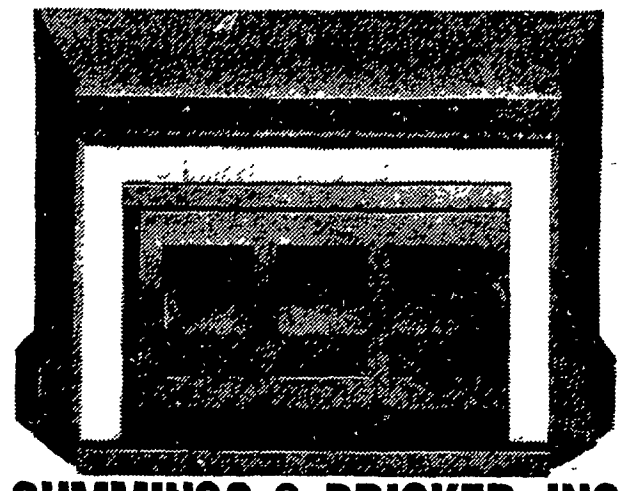

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Heald outlines progressive DHIA program

Ginger Secrist Myers
Staff Correspondent

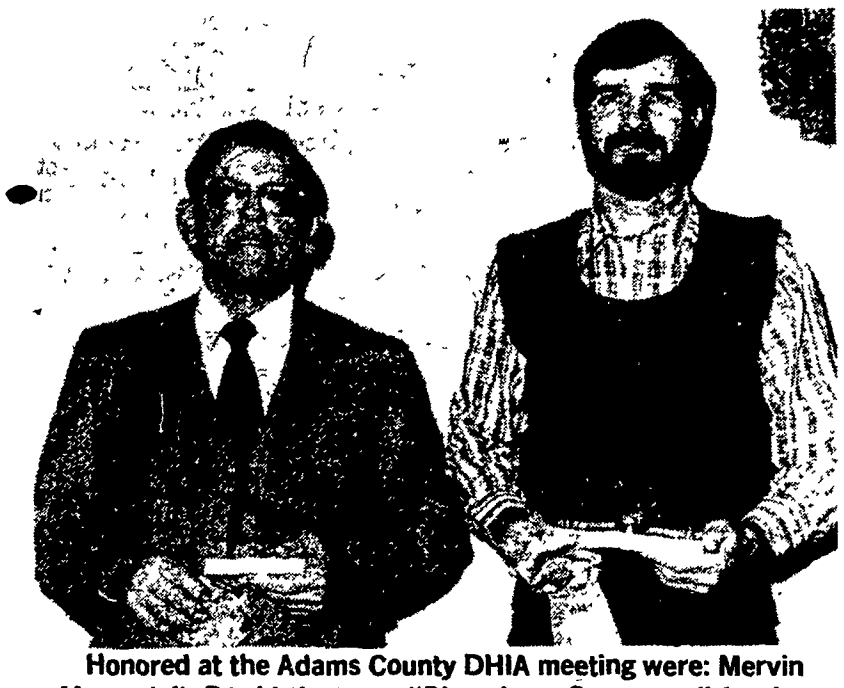
HAMPTON —The 53rd Meeting and Banquet of the Adams County DHIA was held at the Hampton Fire Hall last Thursday evening.

Following a roast beef dinner that was served to the over 200 persons present, awards for outstanding herds and individual cow records were presented.

Recognized as high herd in the county was Noel and Holmes, Hanover with 20,458 pounds milk and 798 pounds fat on 56.5 cows. Second place went to Larry Deputy, East Berlin with 122.3 cows averaging 21,223 pounds of milk and 782 pounds fat followed by Weim-Sharr Farms, New Oxford with 19,424 pounds milk and 727 pounds fat on 63.8 cows.

Recognized as the herd with the greatest increase in butterfat production was M.J. Starner & Sons, New Oxford, who increased their herd average by 141 pounds of fat on 107.1 cows.

Top milk producing cow in the county for 305 days was "Ethel" owned by Leroy Deputy. She produced at 5-06 33,198 pounds of milk and 837 pounds of fat. High fat record made in 305 days went to El-Rho Farm for the record of "Kay", 5-05 25,900 pounds milk and 1393 pounds fat.



Honored at the Adams County DHIA meeting were: Mervin Myers, left, R1, Littlestown, "Piney Lane Guernseys" for the cow with highest lifetime butterfat record of 8,546 lbs. in 10 lactations; Eldon Baum of El-Rho Farms, R1, Abbottstown for high cow butterfat production with 1,393 lbs. in a 305 day lactation.

Adams County Dairy Herd Improvement Association elected directors and re-organized at the 53rd annual meeting, held last Thursday, at the Firehall in Hampton. Officers elected; (left to right: Laurence Wilkinson, R4, Gettysburg, president; Vincent Lobaugh, R1, Aspers, vice-president; Ray Dutterer, R2, Littlestown, secretary; and Marcia Brown, R3, Littlestown, treasurer.

High lifetime production for milk went to "Tess" owned by Penn Gate Farm, Littlestown with 194,802 pounds of milk in 12 lactations. High lifetime award for fat production went to Piney Lane Guernseys for "Kitty" who produced 8,546 pounds of fat in 10 lactations.

Special ribbons were given in recognition of herds making over 700 pounds of fat and those making over 650 pounds of fat.

Those over 700 pounds include: Noel & Holmes 798 pounds, Leroy Deputy 782 pounds, Weim-Sharr Farms 727 pounds, Stoner Bros. Dairy 725 pounds, M.J. Starner & Sons 718 pounds, Roy A. Weaner, Jr. 711 pounds, Brown Valley Farms 709 pounds, and Kling Ayr Farms 708 pounds.

The 1981 DHIA Annual Summary was presented by Thomas Piper, Extension Agent. The Adams County DHIA finished its 53rd year September 30, 1981 with 56 whole-year herds and 4,091 cows on test. Figures revealed an increase in both milk and fat per cow by 551 pounds and 18 pounds respectively over 1980 figures. Also the value of the product above feed cost per cow increased by $77.36 over the previous year. While the average number of cows per herd in the state for 1980-1981 was 57.4, it was 70.5 in Adams County.

(Turn to Page D10)

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Adams Co. DHIA

(Continued from Page D9)

The featured speaker for the evening was William Heald the new director of the State DHIA Program at Penn State. Heald, a former Chester County native, comes to State College from The Virginia Polytechnical Institute where he completed his graduate degree studies, taught, and did research for a number of years.

He is a lactation physiologist specializing in mastitis. He outlined to the group where the state's DHIA program has been and new innovative changes which need to take place to keep the program progressive.

Heald stated that expansion of the State testing facilities and the programs provided through DHIA are vital. This has included moving the program into a new testing facility at Penn State and purchasing new testing machines to replace outdated models. The new machines will test for both butterfat and protein.

Heald sees protein testing as the trend of the future already being in demand by producers, processors, and the A.I. industry. He sees this as DHI's chance to lead the industry.

"After all, protein is what we're really selling. With only 40 percent of the milk produced going for fluid consumption, component pricing is coming. No one wants to pay to have water hauled over the roads," he said.

The hardware involved in the testing program is being incorporated to be more efficient both in time and operating costs. Computers in the lab are now being "married" so that they are incorporated into one complex computer, eliminating the need for extra technicians.

Heald said he would like to purchase $100,000 of the hardware necessary for the DHI to do its own data entry work. DHI presently rents computer space from the University. Dr. Heald agrees that this looks like a large sum, but in five years the investment could return that value three times in the savings on rented computer time and space. "Through automation DHI hopes to serve you better, faster, and more efficiently," he said.

Heald noted that current trends have shown that AM-PM testing is now DHI's most popular program. With this program more herds can be tested with the present number of supervisors and studies have shown that it is the second most accurate of the testing programs preceded only by the owner-sampler program. Heald cautions, though, that any milk testing program is only what the dairyman makes of it in terms of accuracy and effectiveness as a management tool.

He strongly encouraged the dairymen present to make use of the somatic cell count program. "The lower the somatic cell count, the higher the production. Research has found that the greatest loss of production is at the level of 100,000 to 200,000.

"That would show up as a '1' on

(Turn to Page D11)

Top herd awards went to: from left, Stanley Weimer, R2, New Oxford, partner in Weim-Sharr Farms, third high herd with 19,424 lbs. of milk, 727 lbs. butterfat on 64 cows; Leroy Deputy, R1, East Berlin, second high herd with 21,223 lbs. of milk, 782 lbs. of butterfat on 122 cows; Claude Holmes, R1, Hanover, partner in Noel and Holmes, top high herd with 20,458 lbs. of milk, 798 lbs. of butterfat on 56 cows. Deputy was also honored for the nigh cows milk production of 33,198 lbs. in a 305-day lactation.

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Adams Co. DHIA

(Continued from Page D10)

your test sheets in the current program. So you can see we need to improve our testing accuracy for those cows we previously considered to be free of problem mastitis. "This program provides the dairyman with a real opportunity to improve milk production."

Heald defined his own job as heading more into the field of extension education and said he feels what the DHI program needs is a general manager. Plans are underway to hire an assistant for Dean Emig who also could handle the meter testing procedures which would free the present fieldmen to get out to the county level more often.

Time is often lost on returning test sheets to the dairyman due to errors which are made on the barn sheets and then must be corrected at the lab, Heald pointed out. He said he feels the fieldmen could do a better job of educating the supervisors if they could get out to them more often.

High on Heald's list of priorties is revising the present DHI report forms received by dairyman — tailoring them to meet the farmer's needs.

Also with the advent of more on the farm computers, DHI needs to keep its programs relevant to any herd size regardless of any merchanization used in conjunction with managing that herd. This will probably necessitate hiring someone who is specialized in the computer field to work with the formulation of programs, stated Heald.

In summarizing, Heald conceded that this will all cost money. Rates for check testing in DHIR herds will be raised, the cost of testing meters will be raised, and the cost of testing itself will probably increase. "However, Pennsylvania still has lower testing rates than do neighboring states and we can be proud of the progress of our dairymen and the DHIA program," he concluded.

During the annual meeting new Association officers and directors were elected. Elected for a three year term as directors were: Ray Dutterer, Larry Wilkinson, and Waynes Rodgers. Officers elected by the Board of Directors were: President Larry Wilkinson, Vice President Vance Lobaugh, Secretary Ray Dutterer, and Treasurer Marcia Brown.

Denison is Farm Manager member

CAMP HILL — Richard Denison of 211 Walnut Street, Shiremanstown has been elected into professional membership of the American Society of Farm Managers and Rural Appraisers.

Membership in the Society is for those who are engaged in some phase of professional farm and ranch management or rural appraising and who meet the Society's rigid membership requirements.

Denison manages the Farm Management Service of the Pennsylvania Farmers' Association. Farm Management Services provide a full-scale farm management, farm accounting, farm business analysis, farm tax planning and farm tax preparation to more than 4,000 Pennsylvania farmers.

The American Society of Farm Managers and Rural Appraisers

Richard Denison

was founded in 1929 and has over 3,700 members throughout the United States and Canada. The Society's national office is in Denver, Colorado.

Society elects Gast president

ATLANTA, Ga. — Robert G. Gast, professor and head of the Department of Agronomy at the University of Nebraska-Lincoln, became president of the Soil Science Society of America yesterday at the society's annual luncheon and awards program. He succeeds B.A. Stewart as head of the 6,000-member scientific, educational organization.

Gast's principal interests are in the area of soil physical chemistry and mineralogy. Recent emphasis has been on the base surface chemistry of clays, oxides, and hydroxides in soils, and the movement and loss of nutrient elements from soils.

The results from his research have been applied toward the solution of practical problems such as the movement of radionuclides in soils, application of waste material to land, and the movement and loss of nutrients from soils.

He has been active in developing early guidelines for the application of municipal waste on land. A past editor of the **Journal of Environmental Quality**, he has served on the American Society of Agronomy board of directors.

A Fellow of ASA (1977), he received all three degrees from the University of Missouri.

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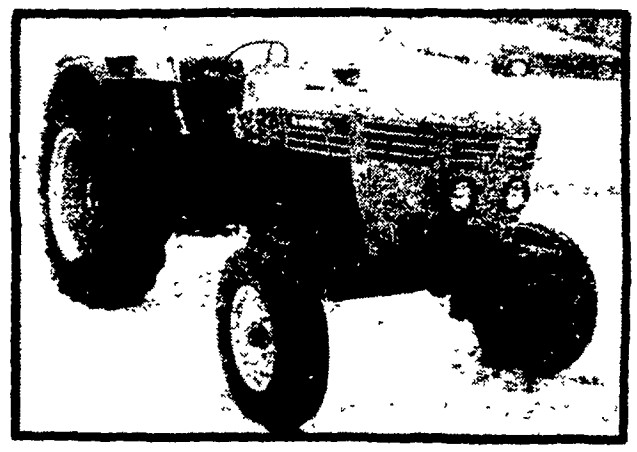

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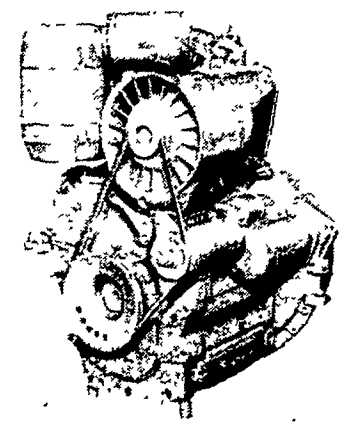

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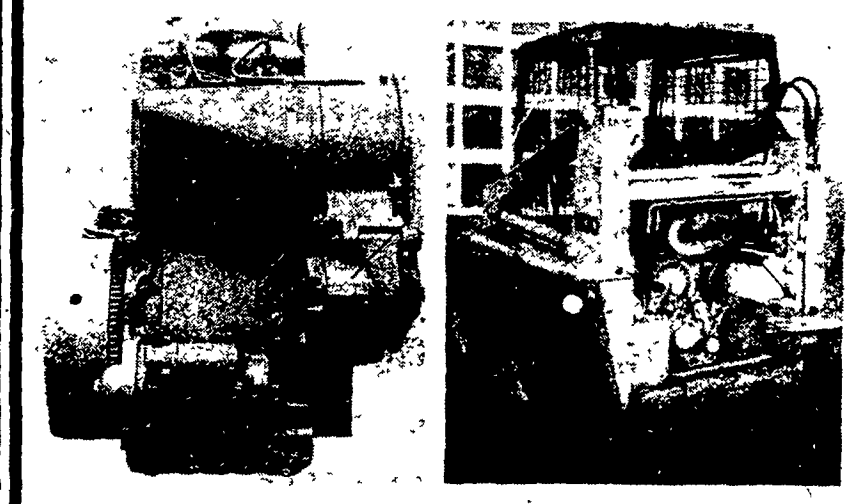

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Major global crop areas need precipitation

WASHINGTON, D.C. — Crop areas of northwestern and South Africa continued to need rain this month, while dry weather forced a switch from winter wheat planting to lower-yielding spring wheat and barley in parts of Spain and Portugal, according to a weekly report issued by the Joint Agricultural Weather Facility of the U S. Departments of Commerce and Agriculture. In the United States, field work was brought to a halt in New England as a major storm dumped heavy snow.

Highlights of the report follow.

—**United States.** Unseasonably mild weather continued across the northern states and over the Great Plains with normal to slightly below-normal temperatures dominant in the East and West. A major storm dumped heavy snow over New England, halting field work. Sub-freezing temperatures and frost extended into portions of the Gulf Coastal states, but did not reach into citrus orchards, and caused only minor damage in northernmost winter vegetable regions of Texas.

—**USSR.** Widespread precipitation in Western USSR fell as rain in the central Ukraine and snow in the Baltic states south into Belorussia and the western Ukraine. Light precipitation fell from the Central Region and Volga Valley south into the North Caucasus. Winter wheat is dormant in most areas, with only limited growth taking place near the Black Sea. In South Central USSR, the cotton harvested neared completion in southern areas.

—**Europe.** Due to continued dry weather in Spain and Portugal, much of the area intended for winter grains will be planted to lower-yielding spring wheat and barley in December or January. Conditions remained too wet for winter grains in parts of central Europe. Precipitation improved soil moisture in Yugoslavia, Romania and Bulgaria. Winter wheat growth is occurring only in areas near the Mediterranean Sea.

—**South America.** Significant rain helped corn, soybeans and other crops in Cordoba, Santa Fe and extreme northeastern Argentina and through most of southern and central Brazil. The rain had little impact on Brazilian wheat since the harvest is nearly complete in Rio Grande do Sul. In Argentina, mostly dry weather in Buenos Aires—which is expected to produce about 60 percent of this year's wheat crop—and in La Pampa aided maturation and harvest. Some showers occurred in extreme southern wheat areas.

—**Australia.** Favorable harvest weather prevailed throughout the wheat belt. The harvest is about to begin in Victoria.

—**Southeast Asia.** Showers were confined to peninsular Thailand, Malaysia and Indonesia.

—**East Asia.** Winter wheat remains dormant north of China's Yangtze River Valley. Dry weather benefited the final harvest of late rice in southern coastal areas. In South Korea, winter wheat remains dormant under dry, cold conditions.

—**South Asia.** Continued dry weather in winter grain areas north and north central India further reduced topsoil moisture. More rain during the current planting period would help germination and early crop growth. In contrast, dry weather aided the cotton harvest in centrtal India and the winter rice harvest in the east and northeast. Dry weather continued in Burma.

—**Northwestern Africa.** Persistent dry weather continued over Morocco and western Algeria while needed rains fell on northern winter grain areas of Algeria and Tunisia where sowing should be underway.

—**South Africa.** Showers helped crop growth in northern portions of the corn triangle, including southern Transvaal, but the Orange Free State was mostly dry. Timely rains are needed to ensure favorable yield prospects.

Prepare the proper grain for dairy cows

UNIVERSITY PARK — Many people do not realize that beef cattle on fattening rations respond differently to grain preparation than milk cows. Dairy cows must be fed rations that are relatively high in forage dry matter content to remain normal and produce milk of normal composition, says Richard S. Adams, Extension dairy specialist at Penn State. Fattening cattle often are fed high concentrate rations containing little or no forage or roughage dry matter.

Farm grains, especially corn, must be well broken or ground to optimize digestibility of the entire ration. Adams says that this is just as necessary for high-moisture grain as for dry grain.

Cracked poultry corn generally is not fine enough for use in most dairy rations. Each kernel of corn should be broken into at least 6 to 8 pieces for good feed utilization and milk production. Often this requires the equivalent of grinding through a hammermill with a ½ inch screen and rolling with enough tension to produce similar particle-size when the material is rubbed between your fingers.

Although steam flaking of corn may improve digestibility more consistently, it may not improve the performance of dairy cows.

If steam flaked corn provides over 30-35 percent of the concentrate dry matter fed, milk fat test results may drop. This reduction may result from the effect of the heat treatment — such as flaking or pelleting — on feeds with a high-starch content.

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1,500	5'4"	9'0"	7	1,388	438.00
2,000	5'4"	12'0"	7	1,735	534.00
3,000	5'4"	17'11"	7	2,432	720.00
4,000	5'4"	23'10"	7	3,130	908.00
5,000	8'0"	13'7"	1/4"	4,484	1645.00
6,000	8'0"	16'2"	1/4"	5,123	1800.00
8,000	8'0"	21'6"	1/4"	6,475	2230.00
10,000	8'0"	26'10"	1/4"	7,825	2660.00
10,000	10'0"	17'0"	1/4"	6,956	2405.00
12,000	10'0"	20'6"	1/4"	8,074	2800.00
12,000	10'6"	18'7"	1/4"	7,900	2690.00
15,000	10'6"	23'2"	5/16"	11,857	4130.00
20,000	10'6"	31'0"	5/16"	15,105	5160.00
25,000	10'6"	38'7"	3/8"	22,115	8135.00
30,000	10'6"	46'4"	3/8"	25,999	9430.00

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Capacity (Gallons)	Diameter	Length	Gauge (Thickness)	Weight (Pounds)	Price FOB Quarryville
1,500	5'4"	9'0"	7	1,388	$75 to $175
2,000	5'4"	12'0"	7	1,735	100 to 200
3,000	5'4"	17'11"	7	2,432	150 to 300
4,000	5'4"	23'10"	7	3,130	250 to 500

Used tanks and used tank shells may not bear underwriters' label nor are coated with black asphaltum paint.

USED UNDERGROUND STEEL FUEL STORAGE TANKS SHELLS (no ends) FOR BRIDGES

Previous Capacity	Diameter	Length	Gauge (Thickness)	Weight (Pounds)	Price FOB Quarryville
2,000	5'4"	12'0"	7	1,615	$200.00
3,000	5'4"	17'11"	7	2,312	300.00
4,000	5'4"	23'10"	7	3,010	400.00

Used tank shells have been steamed and have had the ends removed from tank.

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GASBOY	1820 K2 w/meter hose & nozzle	$498.00
FILL-RITE	NP701 w/meter hose & nozzle	$352.00

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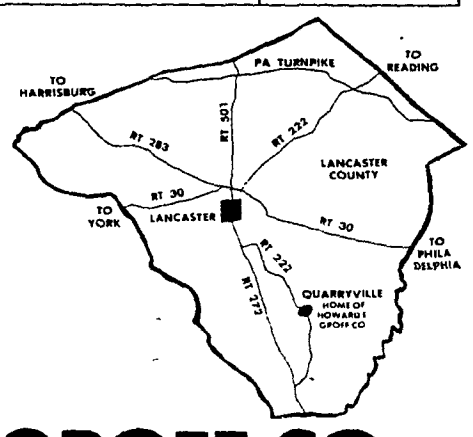

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Vegetable conference coming Jan. 26-28

UNIVERSITY PARK — Important tomato and small fruit production practices, culture for other key vegetable crops, and financial management will be featured topics at the 1982 Pennsylvania Vegetable Conference and Trade Show scheduled for January 26-28 at the Hershey Convention Center, Hershey.

According to Peter Ferretti, Extension vegetable crops specialist at Penn State, 19 state, 13 out-of-state, and two Canadian authorities in various fields will be presenting up-to-date details on numerous subjects that are of major importance to Commonwealth vegetable and small fruit growers.

The conference is sponsored by the Pennsylvania Vegetable Growers Association, Penn State College of Agriculture, and Pennsylvania Food Processors Association, in cooperation with the State Horticultural Association of Pennsylvania.

The January 26 morning session has been set aside for those interested in tomato production. Topics to be covered include new fresh market varieties; disease resistance to Eastern processing tomato varieties; effective early blight control; gel seeding; banding fertilizers; and controlling the Colorado potato beetle.

The Tomato Awards Luncheon will be held at noon on January 26. At the luncheon, the top winners in the 1981 Tomato Growers Contest will be honored.

The Tuesday afternoon program, a joint session with the State Horticultural Association and fruit growers of Maryland and New Jersey, will focus on financial management, weather, and energy.

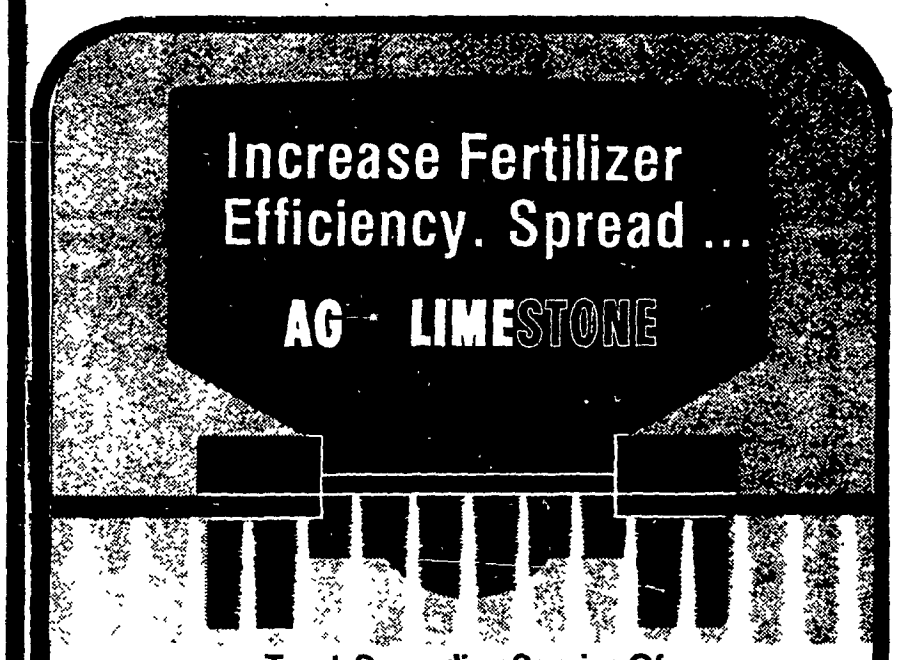
What's new in cultural practices will be the theme of the January 27 morning session. Subjects include handling and storing muskmelons during and after harvest; the newest in sweet corn, bean, pepper, and vine crop varieties; how to grow and sell bedding plants; electronic deer fences; and a comparison of airblast, boom, airplane, and helicopter spray coverage.

On the afternoon of January 27, several disease, weed, and insect control topics will be covered by two Penn State plus four out-of-state speakers. One of the subjects to be covered will be integrated pest management strategies for controlling cabbage and snap bean pests.

"Wednesday evening will feature the Vegetable Growers Annual Banquet," Ferretti points out.

Small fruit production practices will be dealt with on January 28, with concurrent joint sessions for vegetable growers and fruit society members. Subjects include pruning and training thornless blackberries; strawberry weed control systems; and blueberry production practices.

For additional information, contact Bill Christian, Executive Secretary, Pennsylvania Vegetable Growers Association, Box 28, Dalton, PA 18414 717-563-2690.



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Diebold tops Blair Co. DHIA

HOLLIDAYSBURG – The Blair County DHIA recently completed its 53rd year with 95 whole-year herds on DHIA and seven Owner-Sampler herds

The 6,300 cows on test in the county turned in averages of 15,940 pounds of milk and 606 pounds of fat, averages which have more than doubled since the county's testing programs began in 1929.

Raymond Diebold of Altoona topped the county s milk production with a high average of 20,227 pounds of milk Dawn Baker of Martinsburg completed the year with the highest butterfat average at 757 pounds of fat

Rodney Metzler of Martinsburg turned in the highest butterfat production for a single cow His 5 year-old grade Holstein finished with 1,207 pounds of fat on 24,873 pounds of milk

An 8-year-old registered Holstein, owned by Blackcrest Farms of Altoona, completed the year with the high record in milk production at 30,673 pounds of milk

Blair County 4 H'er, Brian Kelly received a plaque for his 6 year-old cow "Iris" who finished with 985 pounds of fat on 19,690 pounds of milk at 5 0 percent test

A 3-year-old cow owned by FFA member Kenneth Hoover topped milk proudction in FFA competition Hoover's Arlinda' finished at 19,849 pounds of milk and 748 pounds of fat

The following are those Blair County dairy farms finishing with more than 600 pounds of butterfat

Dawn Baker	109 0	19,882	757
Dale W Hoover	31 4	19,760	750
Thomas W. Kelly	60 5	19,315	736
Raymond Diebold	31 8	20,227	731
Blackcrest Farms	66 8	19,277	727
Lar Ann Farms	100 9	18,568	720
Dennis A Smith	45 1	18,286	710
James Smith	39 2	19,663	706
Penn-England	74 2	17,626	699
Rodney L Metzler	204 4	17,501	693
Revere Smith	47.3	18,178	693
Charles & Mike Hoover	85 9	19,528	693
William A. England	154 4	17,532	691
Robert A. Brumbaugh	82 8	18,027	685
Emile Dilling	86.5	18,057	682
Marcove Farm	64 8	17,766	679
Clover Hill Farms	144 6	18,291	677
Smith Hollow Farms	79 4	18,083	670
G.W. & R.G Baker	71 7	18,138	670
Jerry & Sandy Young	35.3	17,382	657
Richard Heltzel	34 5	16,769	656
Over Lane Farms	62 2	17,187	653
Milton Corle & Sons	100 2	17,862	650
Steele Farms	62 8	16,703	650
Rich Lou Farms	126 3	16,793	650
W Dean Stern	58 8	17,924	646
Noah S Zimmerman	56 3	17,678	644
Mark Slagenweit, Jr	41 7	16,445	641
Harold Guyer	53 3	16,124	639
Cove Valley Hol Inc.	90 1	18,649	638
Joe McCutcheon	54 7	16,670	638
Julius Replogle	67 5	16,750	637
Harry Brubaker	33 6	16,908	633
Burket Falls Farm	78 8	16,693	623
Donald G Hoover	101.9	16,163	617
C. Eugene Smith	69 6	16,201	615
Oswald Bros	69.8	16,464	614
Robert Dauberman	12 7	15,754	611
George D Smith	57 1	16,691	611
Richard R Fox & Sons	43.8	15,982	608
Phillip E Pheasant	64.1	16,873	608
Walter Keller	100.7	16,350	607
Mary Walters	67 3	13,894	60
Gerald Burket	98.5	17,016	60
Aldon-Acres	58.9	15,891	60
William & Larry Baker	85.5	16,134	60
Aden Troxell	29.2	15,564	60
Sun-Smith Farms	43.7	16,281	60
Harold Yingling	99.5	16,119	60

Lapp tops McKean

SMETHPORT — McKean County Dairy Herd Improvemer Association recently finished its 54th year with 22 whole yea herds. The county's 831 cows on test averaged 14,209 pound of milk and 539 pounds of fat.

Port Allegany dairyman, John H. Lapp led the county production with 18,242 pounds of milk and 711 pounds of fa Lapp's top averages were completed by 32 head of registere Holsteins.

A 15-year-old Holstein, owned by Arthur and Clifford Brow Port Allegany finished the year with the high lifetim production in the county. "Phoebe" recorded 11 lactations 157,984 pounds of milk and 6,081 pounds of fat.

Members of the McKean County DHIA include President Charles Irons, Vice President - John H. Lapp; Secretar Treasurer — Lawrence Stratton; Recording Secretary — R Dillenbeck, Directors — Orton Kinney and Gene Man Supervisors — Mildred and Richard Ludwig and R.D. Detrick

Those McKean County dairies averaging more than 60 pounds of fat are included in the following list.

John H. Lapp	RH	32	88.1	18,242	71
Orton Kinney	RH	28	89.1	16,631	64
Thomas Spees	GrH	28	84.9	16,706	61

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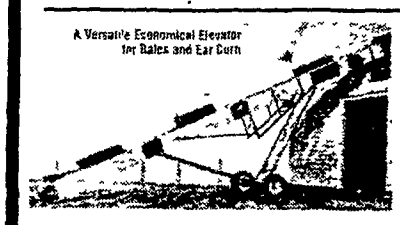

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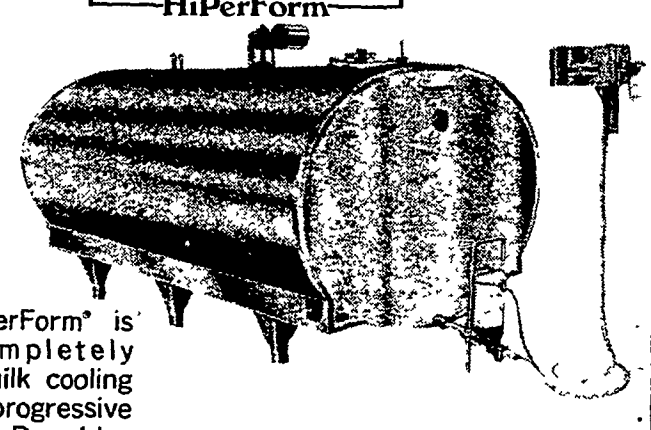

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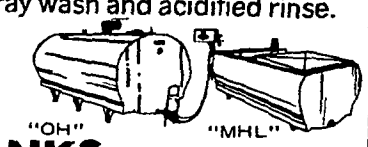

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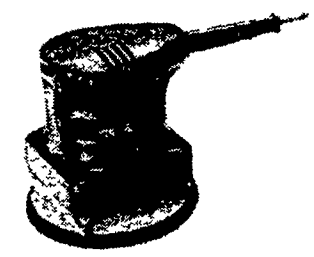

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- All ball bearing construction
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STANDARD EQUIPMENT
Sand papers, rubber pad

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- All ball bearing construction for heavy duty industrial applications

STANDARD EQUIPMENT
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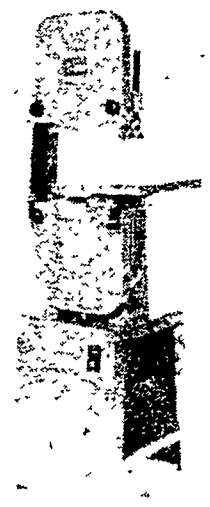
$49.95



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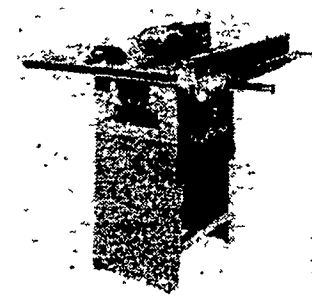

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Crawford Co. DHIA completes 57th year

MEADVILLE — The largest dairy county in northwestern Pennsylvania, Crawford, completed it 57th year of DHIA testing this fall with 141 whole-year herds. In addition, 11 Owner-Sampler herds completed the 1981 testing year.

The county's 7,012 cows on test averaged 14,651 pounds of milk and 540 pounds of fat with an average of 49.7 cows per herd.

Queens Manor Holsteins, Jamestown, led the county with averages of 21,582 pounds of milk and 876 pounds of fat. The Jamestown dairy also claimed the high producing cow during the 1981 testing year. Brookfield Matt Alda, a 7-year-old Holstein, finished with a 305 day record of 34,812 pounds of milk and 1,603 pounds of fat.

Members of the Crawford County DHIA include. President-Darrel Schweitzer, Vice President-Bryan McCurdy; Secretary-Treasurer-Mrs. Robert Mickle; Directors-Jack Waddell, Keith Smith, Bryan McCurdy, William Morrell, Robert Marzka, Earl Hamilton, Mary Jane Sanner, Ron Closky, Larry Crom, Jim Andrew, Darrel Schweitzer, Alden Post, Doneva Hyde, Richard Corey and Cleon Livingston; Supervisors-Margaret Alsdorf, Lester Robinson, William Motzing, John Doctor, Jane Kashner, Harry Livingston, Cynthia Urbanick John Brenizer Jr. and Doris Perry.

Those dairies averaging more than 600 pounds of fat are included in the following list.

Queens Manor Holsteins	RH	12.2	21,582	876
Crawford County Farm	GH	21.0	19,851	747
John Tautin, Sr	R&GH	33.4	19,085	736
Black Pond Farms	RH	85.3	19,845	721
Raymond Anthony	R&GH	61.5	18,966	707
John R. Greenawalt	R&GH	42.5	19,734	696
Morrell Farms	RH	83.8	18,432	668
David C. Lamb	GH	36.2	17,129	647
Richard L. Black	RH	44.5	16,764	644
D. Slusser & B. Gilson	R&GH	67.5	18,913	640
Lyle D. Miller & Sons	GH	36.6	17,317	640
Arden & Ivan Drake	RH	12.4	16,877	639
LaVerne R. Johnson	R&GH	48.8	17,066	637
Wil-Aire Farm	R&GH	56.9	17,085	635
Donald R. Kerr	GH	39.8	16,486	633
Dennis B Halfast	R&GH	42.3	16,760	627
Wilbur N. Wheeler	GH	32.5	16,528	627
Albert Brenner	GH	50.5	16,136	627
Stanley Bradshaw	R&GH	46.3	16,128	624
Schweitzer Bros Farm	R&GH	136.6	17,922	622
Robert & Jane Sanner	R&GH	30.6	16,457	622
Mike Zulovich	R&GMixed	44.4	17,851	621
Bryan R. McCurdy	RH	29.6	17,033	621
Ernest Oakes	R&GH	79 4	16,696	621
Darrel Schweitzer	R&GH	42.1	17,039	612
Roy & Robert Huber	R&GH	29.2	16,891	612
Richard L Field	R&GH	43.5	15,671	612
George P. Simcheck	R&GH	48 4	15,256	609
James K Anderson	RH	64 9	15,651	608
Richard M Lyons	RH	16 6	15,727	607
R. & L Field & Sons	R&GH	38 4	16,257	606
Firestone Farms	R&GH	29 3	16,802	605
Morning Ray Farms	R&GH	30.2	16,380	605
Earl E. Hamilton	R&GH	60.5	16,972	604
Robert C Campell	Rh	56.2	16,783	602
Jeffrey Bradshaw	R&GH	25.0	17,096	600

Northampton Co. honors top DHIA and Holstein members

NAZARETH — The Annual Northampton County joint DHIA-Holstein Association Banquet was held recently at the Plainfield Township Fire Co. Hall. The largest attendance in 15 years, over 200, was present.

Holstein Club President, Donald A Seipt presided over the meeting. Elwood Fox reported on the State Holstein Association Doug Hershey from the State Holstein Association spoke on what to expect for the upcoming year. Bruce Fox presented a slide show of all the events the Holstein Club held during the previous year.

DHIA President, Timothy Merwarth called the DHIA meeting to order. County Agent, Gregory Solt, spoke about using DHIA records in managing your herd, and the need to understand what the records are telling you.

The DHIA awards were given out by supervisors Robert Letson; Deborah Dewalt and Denise Solt. They were as follows: High Fat Cow - Star Bright Holsteins, Mindi - 1,323 lbs.; High Milk Cow - Star Bright Holsteins, Mindi - 32,603 lbs., High Fat Herd - Keystone Farm - 808 lbs., High Milk Herd - Keystone Farm - 21,376 lbs.; High Milk 2-Yrd. Old - Paul F. Smith's, 3 - 22,873 lbs., High Milk 10 Yr. & Over - Fabian & Son's, Becky - 26,773 lbs.; Most Improved Herd - Harold Fabian & Son - 3,052 lbs., Lifetime Milk - John Valkovec's, Valeria - 273,259 lbs.

Awards were given to the FFA and 4-H Clubs by the Holstein Association. FFA Outstanding Scholar went to Gary Fehnel. FFA Outstanding Dairy Project went to Jennifer Bush. 4-H First Year Outstanding Dairy Member was a tie and went to Richard Welsh and Kim Minnich.

Other 4-H Awards went to Michelle Fulmer for First Outstanding Dairy Member, Susan Fulmer for Second Outstanding Dairy Member and Danielle Palmer for Third Outstanding Dairy Member.

Karen Shoemaker, Northampton-Lehigh Dairy Princess gave a short presentation to the audience.

A Dairy Bar presented by the Northampton-Lehigh Dairy Princess Committee was held prior to the dinner.

Those herds averaging more than 600 pounds of fat are included in the following list.

Keystone Farm	3	78.1	86.9	21,376	808
H. Fabian & Son	3	45.1	89.3	20,372	750
Fulmer Bros.	3	75.2	88.3	20,153	724
Paul Semmel	3	72.1	86.6	19,495	722
G. & C. Ulmer	3	61.5	87.3	18,411	711
Woodale Fm.	B3	49.6	84.1	18,289	683
Floyd & Barry Ott	B3	72.1	87 9	17,570	676
Richard Smith & Sons	3	103.4	85 9	17,022	670
Thaler Farms	B3	121.9	88 2	17,324	665
Pond Hollow Farm	3	60 2	86.1	16,771	661
Frank Miller Jr	G3	52.0	89.0	18,599	656
Stocker Brothers	G3	100 9	87 2	16,739	650
John Valkovec	3	45 8	88 3	17,001	645
H & Larry McEwen	B3	77 8	86.0	17,416	641
Star Bright Hols	3	55 7	78.3	17,824	635
Karl Miller	B3	55 9	87 2	17,145	631
Fancy Furrow Farms	B3	142 5	85 6	16,759	621
Maple Grove Farms	3	175 6	85.6	17,271	620
Edwin & Jeff Gum	B3	61 6	84 2	15,391	617
Mack Farms	B3	47 6	91.3	16,510	612

Clearfield Co. DHIA ends 55th year

CLEARFIELD — The Clearfield County DHIA completed its 55th year with 1,247 cows on test. The 31 herds which completed the testing year averaged 14,406 pounds of milk and 545 pounds of fat

R. Wriglesworth and Son of Grampian topped the county with records of 18,890 pounds of milk and 711 pounds of fat on 51.9 cows

Members of the Clearfield County DHIA include President — Frank Orner, Vice President — Jeff Wriglesworth; Secretary — Harold Sperfslage; Treasurer — Mrs Blair Way, Supervisors — Blair Way and David Hughes

Those herds averaging more than 600 pounds of fat are included in the following list

R. Wriglesworth & Son	B3	51 9	18,890	711
Glenn Hicks	B3	59.9	18,389	681
A. L. Orner Sons	B3	66 7	16,821	658
William McFadden	3	35 3	17,512	651
John Sankey	3	32.4	16,610	618
Duane Peters	B3	45.1	16,921	612
Pond Rose Farm	B3	42 9	15,949	609
Dan Gearhart	B3	46 5	15,640	601
Fairman Farms	G3	42 6	15,599	600
A. L. Orner Sons	2	25.7	12,752	600

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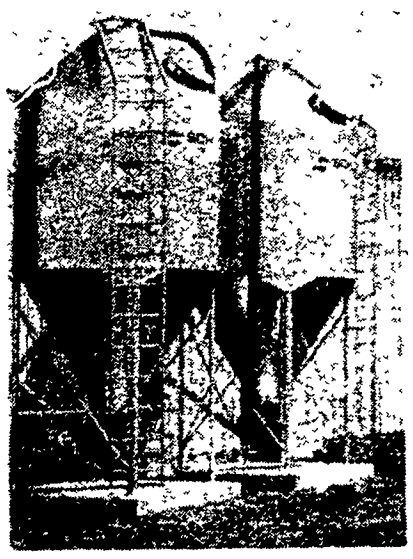

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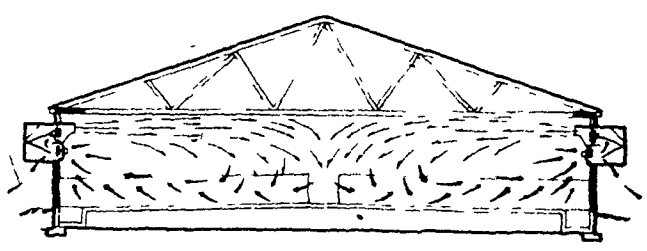

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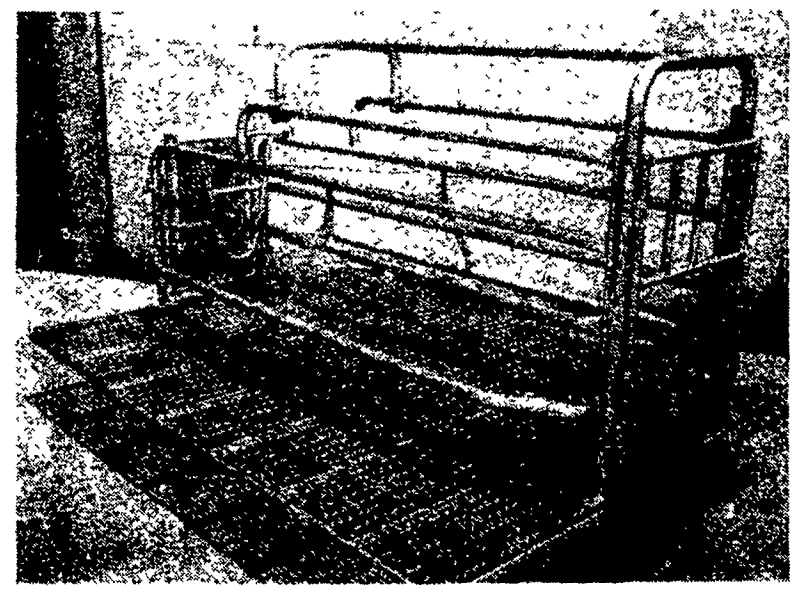

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Lake Louise Holstein tops Wyoming Co. DHIA

TUNKHANNOCK — The Wyoming County Dairy Herd Improvement Association finished its 53rd year on September 30 with 41 whole-year herds and two Owner-Sampler herds

The county's 2,456 cows on test averaged 14,902 pounds of milk and 557 pounds of butterfat

Lake Louise Farm of Tunkhannock turned in the highest averages with 20,068 pounds of milk and 758 pounds of fat on 45 2 registered Holsteins Their 10-year-old Holstein, "Clipper," had high milk production in the county, finishing at 26,350 pounds of milk

The top butterfat producing cow in the county was Cher owned by Paul and Perle Goodwin of Mehoopany The 7 year old Holstein finished with a record of 1,032 pounds of butterfat .

Members of the Wyoming County DHIA are President Eugene Adams, Mehoopany, Vice President-Malcolm Button, Tunkhannock, Secretary-Foster Constable, Laceyville, Treasurer Shirley Stefanko, Tunkhannock, Directors-Donald Barth, Tunkhannock, Robert Day, Mehoopany, and S Milton Tague Tunkhannock. Supervisors Robert H Williams and Stirel Harvey.

Lake Louise Farm	RH	45 2	85 5	20,068	758
Donald Arthur	RH	82 9	86.8	18,643	739
Donald L Williams	RH	79 8	85.7	17,393	707
Thomas J Harding	RH	45.1	90.9	17,670	692
Arrowhead Farm	RH	37.5	89 7	18,058	669
Roger S. Williams	R&GH	61.6	90 1	17,921	665
S Milton Tague	R&GH	78.1	89 3	17,933	664
Wayne-Roger Sherwood	RH	61.7	87 7	16,997	643
Travers Dairy	R&GH	82 2	88 9	15,994	633
Stevens Bros. Farm	R&GH	83 7	88 2	16,461	627
Clifford Sands	RH	59 0	89 9	16,061	620
P. & P Goodwin	R&GH	49 0	86 5	17,157	608
Foster Constable	R&GH	38 7	86 2	15,429	606
Fred & Dale Shupp	R&GH	39 4	86 1	15,204	597
Robert & Eloise Day	GH	40.9	86.3	15,676	590
Dakada Farm D Schack	GH	40 2	89.5	14,716	576
Brown Hill Farm	GH	80.0	84 9	15,463	563
Tari	R&GH	156.6	84 2	14,942	558
John W Place	R&GH	28 1	82 4	14,326	557
Adams Acres	R&GH	43.8	87 2	14,838	545
Harry C Clark	GH	31.6	89 3	14,236	543
Luce Farms	R&GH	33.4	85 4	14,723	539
Wayne Robinson	R&GH	51.8	82 0	14,865	538
Skip & M Henning	RH	28.3	86.4	14,890	537
Dennis Boyanowski	R&GH	49 5	78.0	14,311	530
Kintnerdale Farm	R&GH	50.4	87.0	14,319	528
Stowell Farm	R&GH	67.6	84.9	15,114	522
Hockey Pond Farm	GH	59 8	85.4	14,166	510
Kenneth R. Harvey	R&GH	38 9	88 5	13,918	510
Greenley Bros	Mixed	36 7	87.4	13,493	509
Mr Arthur Morrison	RH	47 0	86.7	12,620	500
B & C Martin	R&GH	48 6	85 9	13,475	488
Donald Barth	R&GH	41 3	87 4	12,958	484
Arthur Squier	R&GH	34 8	86 8	13,212	480
Charles Blaisure	GH	248.1	83.3	13,373	467
Spruce Row Farm	R&GH	87.5	84.9	11,759	465
Charles Ellis, Jr.	R&GH	50.0	87 7	12,882	459
Green Mtn. Farms	R&GH	41.9	87.3	12,732	421
Harold Manning	R&GH	69 0	86 5	11,196	418

Shearer sets new fat record for Juniata Co. DHIA

MIFFLINTOWN — The Juniata County Dairy Herd Improvement Association reported another successful testing year Average production per cow for the 100 herds on test is 15,267 pounds of milk and 579 pounds of fat.

Records are up from the 1980 levels of 14,717 milk and 559 fat which was accomplished by 89 herd owners Cow numbers have also increased from 3,863 in 1980 to 4,315 in 1981 Juniata County DHIA has completed its 58th year of testing.

Harold B Shearer of East Waterford has set a new high for butterfat average per cow at 743 pounds, and Roy and Glen Henry of Port Royal have achieved the highest milk production with 19,956 average per cow in Juniata County

Honors for the highest individual cow were shared by Freeburn and Norman Love with their registered Holstein cow making 26,880 pounds in milk and 1,196 pounds fat.

Of the 100 full-year herds on test, 35 had butterfat averages over 600 pounds. An additional 39 herds exceeded 500 pounds of butterfat. The following list is for herds over 600 pounds

Harold B. Shearer	39H	19,008	743
Roy & Glen Henry	63H	19,956	740
Clyde D. Moyer	41H	17,938	722
Freeburn & Norman Love	47H	18,531	713
Rick & Ralph Saner	47H	19,193	712
Larry & David Noss	65H	18,201	707
Charles C. Saner	52H	17,675	696
James C. Graham	33H	18,177	683
George M. Stewart	27H	17,470	681
W. Harshbarger & Sons	39H	16,914	678
S.F. Metz	93H	17,263	673
Russell J. Dressler	33H	15,888	664
James H. Speer, Jr	57H	17,255	658
James L. Swartz	31H	17,455	652
R.E. Shearer & Sons	55H	17,083	651
Charles Wochley	55H	16,675	648
James & Anne Faulkner	42H	18,792	642
Mark L. Zook	50H	16,691	637
Lester Brubaker & Son	59H	16,840	635
C. Orlyn Saner	39H	16,548	631
James, Trudy Wagner & Son	61H	15,337	630
Iskcon Farms	14BS	14,663	627
Elmer A Noss & Son	36H	15,589	626
Marvin E. Pontius	29Mixed	16,301	623
Donald & Diane Apple	69H	15,689	616
Merv[illegible] R Zendt	55H	17,465	614
J. William Peoples	29H	15,756	611
John M. Zimmerman	52H	16,643	611
Grand Hope Farm	164H	15,304	610
Barry E. Lucas	37H	16,691	607
Leonard C Queitzsch	44BS	14,590	603
Rodney Conrad	39H	16,353	602
Depew Brothers	62H	15,311	601
John M. Auker	40H	15,188	600
Luther C Maben	30H	16,587	600

Erie Co. DHIA completes 55th year

ERIE — Erie County reported 117 full-year herds at the completion of the 55th year of the county's DHIA. The county's 5,980 cows on test averaged 14,929 pounds of milk and 543 pounds of fat. In 1927, the Association's first year, the county had less than 400 cows

Corry dairyman, David Triscuit turned in the top averages for milk and fat with records of 20,266 pounds of milk and 723 pounds of fat on 55 8 cows.

A 10-year-old Holstein owned by Robert Henry of Union City finished with the highest record in county for milk and fat. Henry's high producer "Julie" finished with 31,843 pounds of milk and 1,228 pounds of fat.

Included in the following list are those dairy farmers recording more than 600 pounds of fat.

David Triscuit	H	55.8	20,266	723
John Lindstrom	R&GrH	53.7	18,834	701
W. & M. McCray	R&GrH	46.4	18,142	688
Robert Henry	R&GrH	31.4	19,402	680
Paul Senita	H	50.5	17,891	676
Leo McCray	GrH	75.1	17,468	656
James Akam	H	68.4	17,066	650
Henry Ester	H	35.8	17,624	648
Neil Baxter	R&GrH	50.4	17,390	647
James Hammond	H	80.1	18,179	646
Richard Ribinson	R&GrH	48.0	16,906	645
Frank Pollock, Jr.	GrH	27.5	16,736	638
D. Robinson & Sons	R&GrH	125.0	17,445	637
Curtis Haven Farms	H	42.0	17,482	635
Ted Thompson	GrH	39.0	17,417	627
Rodney C. Watrous	GrH	70.4	16,202	627
Bob McLaughlin	R&GrH	36.1	17,034	617
L. & D. Wade	R&GrH	44.7	16,637	616
How Rich Farms	R&GrH	54.5	17,286	610
Dennis Danielson	H	20.9	16,574	606
C. & Diane Farley	R&GrH	49.0	16,800	604
Pal-Nel Farm	R&GrH	54 2	17,720	602

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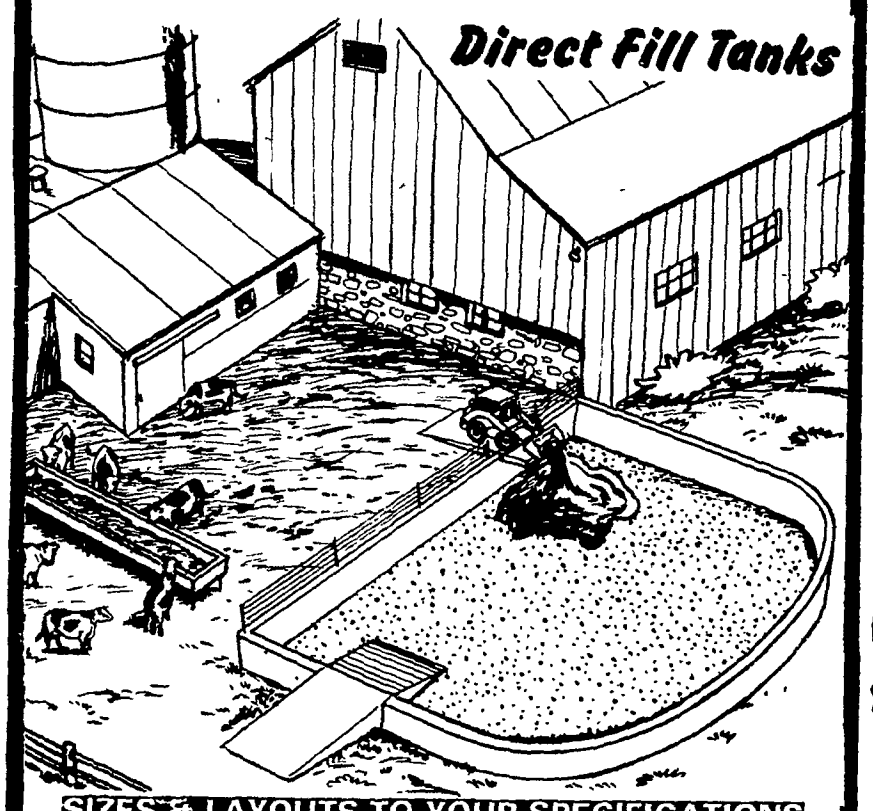

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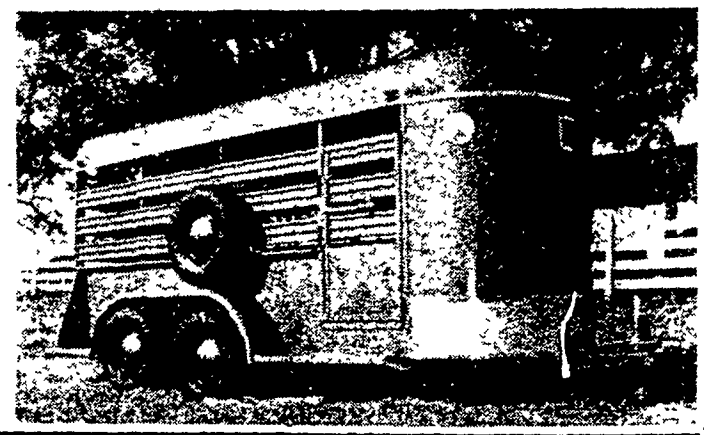

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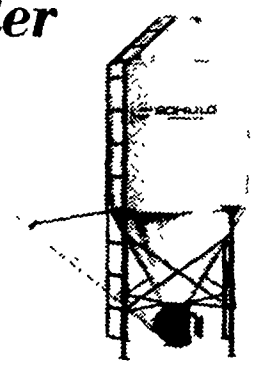

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Control weeds in Christmas tree plantings

NEWARK, Del. — Christmas trees offer a potential cash crop for part-time farmers and people with small land holdings in semi-urban areas. One of the problems in establishing such plantings is weed control — especially during the first few years after trees are planted.

Weed control is also a major problem for operators of nurseries. High labor costs make chemicals the only practical means of control for both kinds of enterprise.

University of Delaware Extension horticulturist Charles Dunham has been evaluating potential herbicides for their effectiveness and safety on plants. The information he collects is being used to help clear promising materials for use on such ornamental crops under the Environmental Protection Agency's special IR-4 program.

"There aren't very many effective herbicide treatments currently available for Christmas tree growers to use at planting," says Dunham. "As coarse weeds get ahead of young trees, it becomes almost impossible to remove them without resorting to a contact herbicide."

Last summer he says he got excellent results on white pine, Norway spruce and Douglas fir with a combination of several herbicides, including Princep, a product not presently labeled for use on ornamentals at planting.

Princep was applied immediately after planting in combination with either Goal or Deverinal. Spray formulations included either 1 pint of Goal or 2 pounds Deverinal (active ingredients) with several different rates of Princep.

At the 1 pound rate, Princep, in combination with these materials caused no plant injury to ornamentals growing on either sandy soil at the university's Georgetown Substation, or the heavier soils of the experimental farm in Newark. Materials were applied over the top immediately after planting on weed-free ground.

Though results were promising, Dunham thinks it is very important that the soil be well firmed around plants if they are to resist herbicide injury. This is easier to do if you're planting by hand, rather than by machine.

In a related demonstration, Dunham has been evaluating the effectiveness of the Herbi sprayer as a low-cost, low-labor means of applying herbicides on nursery stock, including Christmas trees.

Advantages of the sprayer are that it applies very low volumes of material per acre. This means that with one filling, you can cover a large number of trees. The equipment is light and easy to handle.

"I think the Herbi has a place in ornamental production," he says. "The main disadvantage we encountered was that the volume put out is so low that it's hard to realize you're putting any material on." This poses a psychological problem for the person doing the spraying in the sense that it may seem that the job isn't getting done. You have to be careful not to overtreat.

Tests showed that the sprayer is effective in applying flowable preemergence herbicides such as Princep, Deverinal, Goal and Lasso. It is also very effective in applying post-emergence materials such as Roundup. Roundup cannot be used where foliar contact is a potential cause of injury.

All indications are that despite the low volume of water applied per acre, the effectiveness of the materials is much the same as when comparable rates of herbicides are applied by other methods, says Dunham. He feels the Herbi offers a very efficient low-cost method of applying weed-control chemicals. Being hand held, it can be used in areas difficult to reach with mechanical equipment.

During the past two years, Dunham has worked on weed control problems encountered the previous year. Using spring-planted Norway spruce, Douglas fir, white pine and Colorado spruce, he has been able to find the most effective control and rates of herbicide application on young trees of these species.

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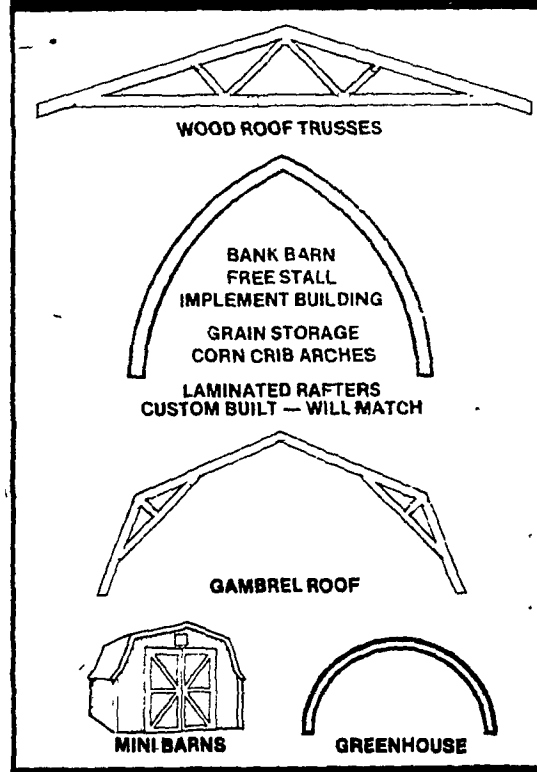

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Mifflin Co. DHIA Report

dhia
Pennsylvania Dairy Herd Improvement Association

November 1981

NAME	BRD	NO. COWS	% COW DAYS IN MILK	LBS. MILK	LBS. FAT
Robert Stayrook	H	23 7	90 8	18,805	733
E Clair Fisher	H	40 8	91 1	19,192	721
John Y Bawel	H	16.9	93.5	18,842	720
Percy S&R Glenn Yoder	H	76.8	88 0	18,765	699
David R Spicher	H	67.7	90 5	18,107	695
John A Peachey	H	55.1	89 2	19,373	695
James L. Hostetter	H	43.4	91 2	17,680	689
Mark S Yoder	H	84 4	86 8	16,621	681
Fred C Myers	H	23 0	87 6	16,280	680
Bradstead Farm	H	35 9	90 5	18,094	678
Dry House Farm	H	92 8	87.6	17,844	673
G. Sheldon Peachey	H	40 9	87 7	18,924	663
Merle E Yoder	H	35 8	90 3	17,870	654
David W. Yoder	H	62 6	86 9	17,892	654
Peachee Farms	H	67.8	87 3	17,377	648
Mark R Yoder	H	141 7	89 7	16,741	647
J. Loren Yoder	H	28 4	89.6	16,457	642
Gideon L Yoder	H	36.9	84.0	16,076	641
Charles L Forgy	H	41 9	91 0	16,477	641
Leory Kauffman	H	53 7	87 7	17,074	637
Julia A King	H	41 9	89 4	16,048	633
John A Yoder	H	38 5	87 9	17,421	632
Louis S Peachey, Jr	H	52 6	82 8	15,783	632
Floyd J Yoder	H	27 9	87 9	17,472	630
Moses J Zook	H	39 6	86 5	16,718	629
Bill & Karol Wingert	H	39 3	84 7	16,972	628
Kore J Peachey	H	54 2	89 7	16,621	626
James G. Laughlin	H	41 3	88.3	15,981	624
Marvin E Peachey	H	52 9	85 5	16,551	623
John L King	H	41 9	90 0	16,348	621
Irvin H Fleming	H	97 6	91 1	16,628	615
Joshua D Yoder	H	53 3	87 1	16,323	615
J.D Glick	H	36 7	85 4	15,985	614
Harold Aungst	H	121 1	85 0	15,994	613
Nelson J Bradford	H	57 2	88 7	16,332	612
Marvin R Kanagy	H	43 6	86 6	16,111	612
Paul H Yoder	H	52 2	86 1	16,512	608
John K. Kauffman	H	70 1	90 4	16,866	608
David T Hostetler	H	47 7	90 6	16,174	608
Audrey Gay Rogers	H	23 2	95 9	16,333	608
Frank J Hartzler	H	48 0	89 2	16,468	605
Gary Moist	H	48 4	88 3	16,814	604
John B Peachey	H	68 8	92 3	16,864	604
Louis S Yoder	H	46 2	85 9	15,927	603
Sylvanus S Peachey	H	83 3	87 3	16,188	600

OWNER NAME OR NO.	BRD	AGE	LBS. MILK	LBS. FAT
Merle E Yoder				
Pat	H	4-8	20,753	768
Peachee Farms				
Emma	H	7-3	18,486	701
Irvin H Fleming				
Moneka	H	2-11	21,326	720
J Elrose Glick				
Lady	H	7-11	22,347	721
Sylvanus S Peachey				
Goldy	H	6-0	22,534	827
Princes	H	5-9	21,262	736
Mark R. Yoder				
Lime	H	6-1	17,841	713
Lady	H	5-5	18,496	734
Audrey	H	3-2	23,670	840
Percy S&R Glenn Yoder				
Lucille	H	9-11	19,575	701
Ann	H	7 1	22,341	908
Mabel	H	4-7	17,151	767
Katie	H	3 10	20,972	789
Sharon	Mix	0 0	20,389	768
Jonas B Kauffman, Jr				
Avis	H	6-3	15,769	712
Gina	H	6-8	18,269	754
Leon K. Donahey				
Marty	H	5-11	16,466	723
Leroy Kauffman				
Gay	H	5-7	22,932	771
Lill	H	2-2	16,999	701
Bradstead Farm				
Evelyn	H	6-4	20,856	778
Erma	H	2-10	17,507	727
Nelson J Bradford				
Sal	H	7-2	22,641	871
Tanya	H	4-0	18,966	748
David R Spicher				
Midnite	H	7-2	20,526	758
Jill	H	7-3	20,374	823
Sue	H	5-3	17,645	792
Dora	H	5-1	16,398	737
Flora	H	3-0	19,666	782
David L Mitchell				
Elby	H	5-5	21,580	703
Ruth	H	4-0	19,007	799
Stephen Zook, Jr				
Glenda	H	9-7	17,793	723
Tina	H	7-2	21,019	776
Connie	H	4-10	22,889	843
John L. King				
Tess	H	7-2	20,139	826
Joyce	H	6-3	21,696	795
Floyd J Yoder				
Betsy	H	2-8	18,410	771
John A. Peachey				
Kim	H	7-1	23,827	722
Rex	H	5-3	23,450	780
Joshua D. Yoder				
Piney	H	6-9	20,277	704
Louis S. Yoder				
Roxey	H	5-4	22,153	814
Linus E Sharp				
68	H	4-11	18,680	811
Enos J. Yoder				
Dolly	H	5-3	20,317	852
James L. Hostetter				
Angie	H	6-11	19,263	708
Mark S. Yoder				
182	H	10-11	20,340	778
328	H	7-4	21,146	843
386	H	5-5	23,841	1000
21	H	3-11	19,172	850
Kore E. Yoder				
Sue	H	10-1	22,393	742
Rena	H	5-7	16,937	729
Simon J. Peachey				
21	H	3-3	19,094	735
John B. Peachey				
67	H	5-9	21,020	758
E. Clair Fisher				
Jody	H	4-6	21,677	867
Eve	H	4-1	26,762	1070
Betty	H	2-0	19,628	707
Gary Moist				
Jolene	H	5-3	20,683	720
Louis S Peachey Jr				
1	H	9-2	20,863	856
74	H	3-9	18,079	733
Gideon L. Yoder				
Cocoa	H	6-3	15,122	733
Happy	H	4-4	18,123	712
Dry House Farm				
54	H	7-6	18,718	708
280	H	5-2	17,776	735
307	H	4-7	22,547	779
Charles L. Forry				
2	H	6-3	22,023	771
39	H	6-6	19,094	792
4	H	6-4	19,479	775
36	H	4-0	21,073	913
Robert Stayrook				
19	H	11-7	20,436	863
Paul H. Yoder				
Hope	H	6-5	21,446	803
John M. Byler, Jr.				
Felicia	H	4-10	18,658	726
Marvin R. Kanagy				
Ollie	H	5-9	19,541	746

(Turn to Page D19)

DISTRIBUTORS FOR SCHLESSMAN'S SEED CORN

PREMIUM SINGLE CROSSES

- NEW: SX-810 - Large Ear, Fast Dry down, Top Yields, Upright Leaf Characteristics, 118 Days
- SX-802 - High Yielding Good Standability, 118 Days ★ #1 Penn State's Class 4 - Mel Johnson's Trials
- SX-700A - Fast Dry Down Corn, Excellent Sheller, 112 Days
- SX-600 - Fast Dry Down Corn, Excellent Sheller, Excellent Standability, 107 Days
- SX-405A - Short Season, High Yield Potential 100 Days ★ Top 3 For The Past 3 Years At Penn State Trials
- SX-520A - First Year In Trials, Placed Third, Class 2, 105 Days.

WHOLESALE & RETAIL
BOYD'S SEED CENTER, INC.
306 Iona Rd., Lebanon, Pa. 17042
Phone: 717-272-8943

BOYD'S 78 AT (Brand) ALFALFA
- Delivers highest yields under today's intensive alfalfa management programs
- Very excellent anthracnose resistance
- Top TDN per acre

$119.00 Dec. Price single bag retail

BOYD'S WETFOOT (Brand) ALFALFA
- Especially good for above normal moisture areas (good stand where others fail)
- High yielding that beats wetfoot disease with phytophthora root rot resistance
- Also excellent under normal conditions

$119.00 Dec. Price single bag retail

OTHER ALFALFAS AVAILABLE:
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- WL 312
- Arc
- Thor
- WL 318
- WL 313
- Saranac AR
- Apollo

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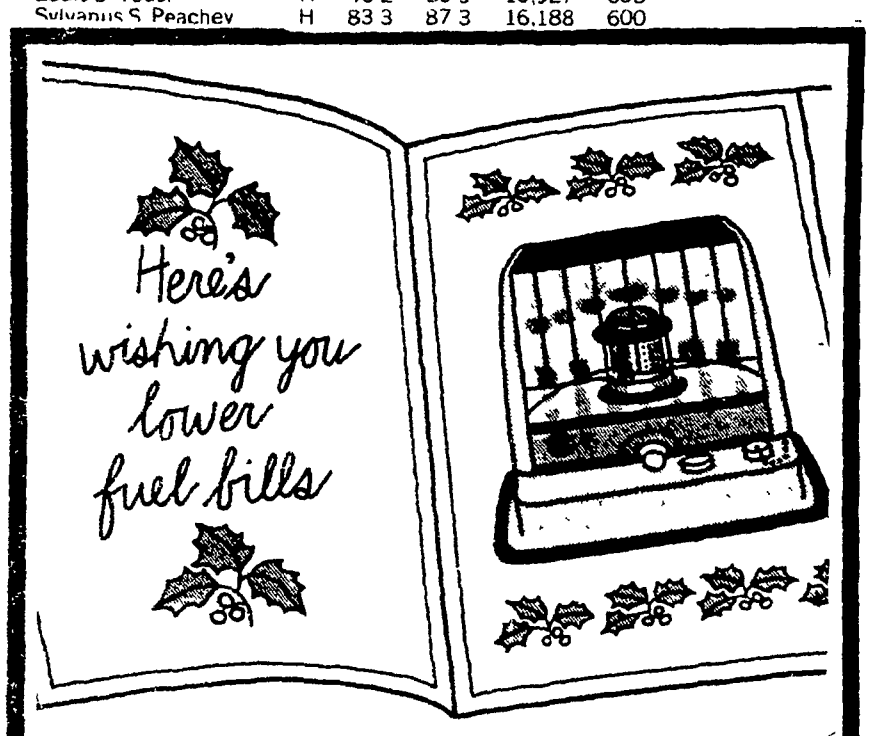

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.HYDRAULIC AERIAL EQUIPMENT

Bedford County DHIA Report

Pennsylvania Dairy Herd Improvement Association

October 1981

OWNER	NO. COWS	% DAYS IN MILK	LBS. MILK	LBS. FAT
Harry W. Wareham	63.2	78.7	49.2	2.14
Anna & Henry Hall	85.6	89.4	52.8	2.04
Luther & Phil Steele	65.1	86.4	49.1	1.91
Paul Den	77.5	91.1	47.4	1.91
Shaffer Farms	58.1	92.1	44 3	1.89
James L. Steele	35.0	81.6	47.8	1.80
Byron Over	58.7	91.3	49.7	1.78

Mifflin Co. DHIA

(Continued from Page D18)

Sue	H	7-10	17,954	765
Jacob C Speicher				
Dede 57	H	4-4	15,708	716
G. Sheldon Peachey				
Paula	H	7-0	24,410	842
Ida	H	4-1	22,359	824
J. Loren Yoder				
Roxie	H	8-2	19,241	709
David T. Hostetler				
2	H	5-10	24,856	895
37	H	3-10	23,368	882
A. Herbert King				
Joanne	H	6-11	19,156	745
Marsha	H	5-0	18,571	700
David Peachey				
Bell	H	7-2	17,356	800
Bill & Karol Wingert				
Josie	H	5-3	17,799	723
Glipper	H	4-1	23,913	793
Jill	H	5-11	25,942	871
Bonnie	H	4-10	17,278	748
A. Fred King				
Ada 174	H	4-5	19,799	810
Myst155	H	4-1	19,087	838
180	H	2-10	19,959	740
Marvin E. Peachey				
Trinda	H	7-9	19,696	782
Jill	H	6-10	22,990	720
Mindy	H	5-6	18,132	743
Goldie	H	4-5	18,971	756
J. Allen Baker	120.6	91.2	43.4	1.77
Dale A. Baker	52 1	91.8	44.7	1.75
William H. Helsel	31.9	90.6	49.4	1.73
Paul I. Detwiler	107.9	90.5	44.9	1.73
Edward L. Creps	43.6	91.5	46.4	1.72
Paul R. Ritchey, Jr.	67.4	89.0	47.1	1.71
Allen Claar	51.0	89.8	47.2	1.71
Sunny Four Farm, Inc.	77.0	90.2	52.0	1 69
Bernard Snider	87.5	86.1	41.5	1.64
Donald Bowser	53.2	93.8	43.6	1.63
Henry & Ron Ritchey	82.9	94.7	45.9	1 63
Clarence & Ken Mowry	191.6	87.9	45.0	1.63
Obie Snider	168.8	86.7	42.7	1.62
Edward A. Deputy	123.8	90.6	45.3	1.62
Denton Clark	44.7	81.9	43.4	1.62
Denton Clark	44.9	86.7	45.0	1.61
Paul H. Rissler	32.3	83.7	45.6	1.61
Richard D. Reed	67.8	92.3	43.9	1.60
Raymond Hinish, Jr.	47.9	83.9	40.4	1.60
Andy T. Mohr	45.0	90.5	43.6	1.59
Clarence & Ken Mowry	196.7	83.7	43:3	1.58
Daniel Smith	56.0	83.2	45.5	1.57
Kim Karns	45.1	85.1	42.1	1.54
Blair Brooke	49.7	87.0	45.4	1.54
Larry Beach	91.3	92.1	40.4	1.54
James Eshelman	102.1	91.2	41.9	1.53
Clyde & Susan Snyder	27.6	92.8	41.4	1 53
Dwight Kagarise	63.2	86.9	40.7	1 52
Ralaine Jerseys	67.6	81.6	30.2	1.52
Anthony Wertz	51.7	88.1	45.3	1.52
Roger R. Brumbaugh	42.1	78.2	41.7	1.51
H & H Farm	32.7	94.2	30.1	1 51
Marlin Deterline	66.5	84.5	36.9	1.50
Dick & Eleanor Rice	53.4	87.9	36.5	1.50

The following cows completed 305 day lactation with 600 lbs. of butterfat in October, 1981:

OWNER NAME OR NUMBER	AGE	BRD	LBS. MILK	LBS. FAT
Ray & Margaret Amick				
Cindy	7	3	17,542	617
Ann	4	3	14,754	670
Donald Bowser				
195	7	3	16,269	622
208	5	3	15,232	614
212	5	3	16,196	633
Jon & Herman Clouse				
216	6	3	16,529	607
Robert H. Beach				
201	5	3	17,584	709
230	3	3	16,604	720
242	3	3	17,629	790
Ray Grubb				
164	5	3	15,225	609
149	5	3	12,146	600
7	4	3	12,863	618
G. Paul Replogle				
9	3	3	15,655	656
Kim Karns				
Pabst	4	3	16,991	668
Apple	2	3	17,138	670
Stan-El Jerseys				
Beth	8	4	12,875	601
Ruby	7	4	11,566	633
Bridget	7	4	15,218	689
Iris II	6	4	12,059	606
J. Allen Baker				
Orlo	7	3	17,745	691
Easter	5	3	22,313	816
Sal	4	3	18,743	692
Kip	4	3	17,839	688
Amelia	3	3	20,052	697
Rome	2	3	18,281	700
13	2	3	19,906	697
Elwood & Rich Smith				
Janet	8	3	22,329	756
86	6	3	19,260	782
Ralph E. Ritchey				
Peaches	7	3	19,214	629
Dwight Kagarise				
Emily	4	3	17,863	652
Rina	3	3	14,453	634
Russel Wyles				
Alice	2	3	16,934	600
Wilma	3	3	18,030	635
Luther & Phil Steele				
Goldie	6	3	21,625	974
Peppie	4	3	18,310	659
Starla	3	3	16,752	742
Dianne	3	3	19,006	743
Pet	3	3	18,374	630
Byron Over				
Hope	4	3	21,762	821
Lady	4	3	21,077	713
Gladys	3	3	19,949	670
May	3	3	20,091	687
Ralaine Jerseys				
Crempuf	10	4	13,652	762
Lilac	3	4	13,069	619
Fred S. Steele				
Specks	6	3	17,890	698
Karen	6	3	14,869	635
Teresa	5	3	16,767	670
Sara	3	3	16,173	662
Bernard Hershberger				
55	5	3	18,102	745
17	3	3	16,391	637
Obie Snider				
Dana	9	3	22,952	871
Patrice	8	3	17,367	706
Lotty	6	3	22,533	847
Betsy	6	3	23,240	1052
Virginia	6	3	21,247	810
Elmira	5	3	22,107	855
Jello	3	3	21,794	872
Betty	3	3	20,685	758
Nattie	3	3	22,952	760
Glad	3	3	14,729	623
Peg	2	3	17,460	652
Elm	3	3	17,363	657
20	2	3	14,877	627
196	2	3	15,859	638
Harold K. Corle				
Blubell	4	3	22,153	786
Jolie	2	3	17,882	606

(Turn to Page D20)

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MAXI-POWER PTO GENERATORS

MAXI POWER

END of YEAR SALE!

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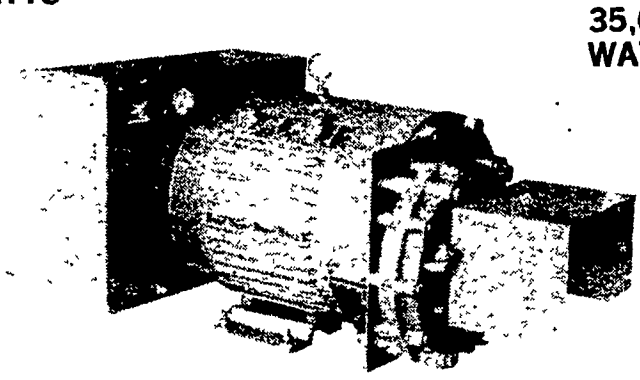
55,000 WATTS

21,000 WATTS

26,000 WATTS

35,000 WATTS

45,000 WATTS



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- 24 hour radio dispached service
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- Free loan of a Maxi-Power PTO if your Maxi-Power PTO ever needs service
- Automatic or manual engine generator sets: L.P. or Diesel, 1 to 1250 KVA

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12,000 watt Winpower with trailer and shaft
12,500 watt Westinghouse with trailer and shaft
15,000 watt Onan with trailer and shaft
12,500 watt Dayton
15,000 watt Surge
15,000 watt Niagara with shaft
35,000 watt Katolight

Plus a fine selection of used engine generator sets

Bedford Co. DHIA

(Continued from Page D19)

R. Clair & Alan Koontz				
Donna	8	3	16,476	683
Sandy	4	3	17,212	635
Pearl	4	3	17,658	678
Gatesway Farms				
53	6	3	16,534	714
62	4	3	21,235	674
80	5	3	15,845	633
Marlin Deterline				
3	5	3	14,104	600
95	3	3	15,363	648
73	3	3	20,868	698
26	3	3	17,166	675
34	3	3	17,398	677
Richard D Reed				
Sissy	7	3	24,243	757
Karo	2	3	17,671	626
Harry W. Wareham				
64	7	3	27,107	1304
54	6	3	25,622	1162
141	6	3	27,856	1354
151	7	3	20,096	774
181	3	3	17,095	795
126	2	3	19,271	680
Clarence & Ken Mowry				
Sally	7	3	22,526	696
Glarene	5	3	27,842	941
Krissy	5	3	27,498	712
Ecstasy	4	3	15,747	716
Wilma	7	3	17,410	632
Ideal	3	3	22,642	806
Gretchn	3	3	19,899	710
Crescnt	3	3	17,432	662
Tabbi	6	3	22,437	775
Raymond Hinish, Jr.				
Belinda	5	3	14,975	643
Jean	4	3	15,705	619
Polly	2	3	15,842	671
Jack E Colledge				
Barb 133	6	3	12,147	615
Chin 145	4	3	17,163	602
Sily 154	3	3	15,730	638
Lady 157	4	3	18,927	647
Albert C. Fulmor				
46	6	3	19,828	734
98	7	8	21,997	713
96	4	3	20,002	654
106	4	3	19,211	603
Anna & Henry Hall				
Helena	4	3	21,616	723
Star	3	3	25,543	823
Blair Brooke				
Idar	7	3	18,856	604
Harry Brubaker				
250	5	3	17,924	712
James R. Falvey				
Gin	8	3	17,499	671
Milly	7	3	16,307	645
Samantha	5	3	16,394	695
Larry & Shirley Imler				
Dana	9	3	17,792	600
Doreen	4	3	20,328	740
Three Spring Run Farm				
317	7	3	20,237	707
461	5	3	16,901	695
Paul Den				
Toni	7	3	18,708	700
Fran	6	3	19,787	757
Lottie	3	3	19,706	748
Celia	3	3	17,888	781
Coco	2	3	18,982	712
Jill	2	3	17,939	737
Sunny Four Farm Inc.				
Mickey	7	3	22,357	832
Fay	5	3	18,371	682
Lisa	3	3	16,964	612
George Garman & Sons				
Susan		3	17,253	708
Nippy	5	3	18,725	816
Dick & Eleanor Rice				
107	4	3	20,190	746
112	4	3	18,023	707
Paul R. Ritchey, Jr.				
59	9	3	20,214	784
30	7	3	20,149	755
17	3	3	20,056	635
Shaffer Farms				
Lola	9	3	16,274	727
Lacey	5	3	16,208	616
Anthony Wertz				
Sue	4	3	19,082	751
Pearl	7	3	17,734	676
Flicka	4	3	23,997	692
Gretal	3	3	14,903	648
Springton Manor Farm				
33	8	3	13,505	634
61	3	3	17,540	641
David Moyer				
112	6	3	17,235	743
132	5	3	15,446	615
Edward L. Creps				
Candy	5	3	15,040	608
Rosie	6	3	22,372	803
Michael Stoltzfus				
Janice	5	3	15,854	604
Edward A Deputy				
101	8	3	19,898	826
95	7	3	16,070	675
45	6	3	19,286	733
35	3	3	17,949	711
17	2	3	18,032	616
47	3	3	15,222	662
JTJ Wakefield Farms				
53	6	3	18,551	639
80	5	3	17,895	701
86	3	3	19,122	649
Dale A. Baker				
987	4	3	18,102	740
358	4	3	20,283	835
Robert Harclerode				
Donna	6	3	13,667	629
Chet & George Erb				
8	5	3	16,583	647
96	3	3	19,129	622
27	2	3	17,500	620
Frazier Farms				
Orpha	6	3	15,994	626
Trish 43	3	3	17,744	650
Bernard Snider				
Rachel	4	3	13,220	611
Carolin	6	3	18,523	730
Wendy	6	3	14,326	618
Sweet	4	3	19,023	737
Susy	8	3	16,653	649
Kristie	4	3	20,827	887
Prell	3	3	16,669	623
Beth	3	3	19,232	799
Gail	3	3	21,931	832
Beauty	3	3	16,463	789
Chris	2	3	23,287	949
Bess	9	2	10,586	478
Heidi	8	2	14,668	722
Robert Swartzwelder				
72	5	3	19,365	805
H. Karl Beegle				
50	4	3	16,128	602
Denton Clark				
Kate	7	3	17,415	661
Gail	5	3	18,238	731
Newbony	4	3	19,121	784
Christy	4	3	17,314	654
Larry Beach				
26	7	3	21,080	737
33	3	3	19,582	685
Ray W. Hinish				
27	5	3	17,529	698
281	6	3	15,559	666
Joseph W. Styer				
Halo	4	3	17,660	639
Roger R. Brumbaugh				
Maude	1	3	17,411	689
Charles Schaeffer				
Lois	4	3	20,608	717
Patches	4	3	19,559	696
Roha	5	3	19,864	686
Marsha	3	3	13,757	613
Paul H. Rissler				
Judy	6	3	19,367	759
Ronald M. Dively				
2	6	3	19,774	723
16	2	3	14,918	645
Brian & Randy Zembower				
Sharie	10	3	19,102	670
Vick 140	6	3	18,402	676

(Turn to Page D21)

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Featuring a single component design for fast erection and completion. The sections bolt together and the tongue and groove creates a sealed wall surface.

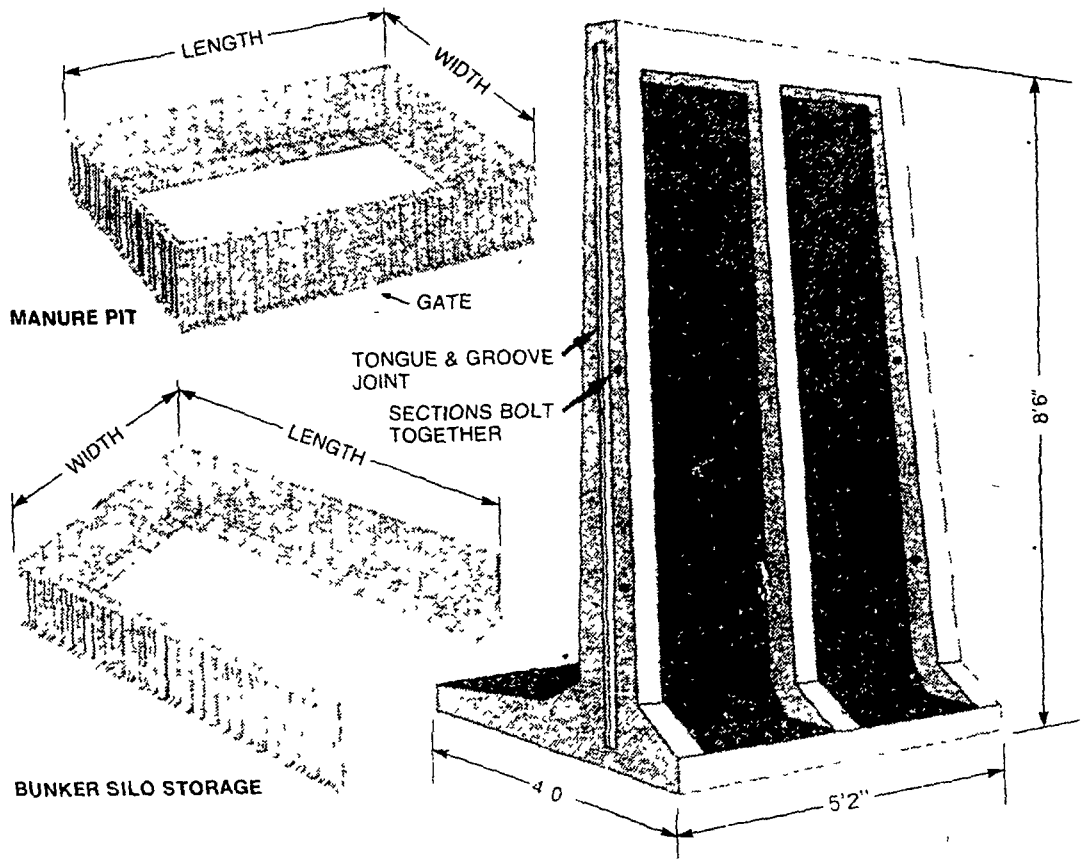
The sections may be dismantled and re-located, customers may select any length or width in increments of 5 feet 2 inches.

In addition to silage storage, these upright units may be used as retaining walls or manure pits.

TONNAGE TABLE FOR 8 FT. SIDEWALLS*

LENGTH	30 WIDE	40 WIDE	50 WIDE	60 WIDE
60	323	432	540	646
70	376	504	630	753
80	431	576	720	862
90	485	648	808	971
100	539	720	900	1078
110	593	792	989	1187
120	648	864	1080	1296
130	688	936	1170	1376
140	755	1008	1260	1510
150	808	1080	1350	1616

*BASED ON LEVEL FILL WITH 45 LBS PER CU. FT.



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Farm Products Division

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Bedford Co. DHIA

(Continued from Page D20)

Ch. & Ross Hershberger				
Mae	5	3	19,964	729
28	5	3	18,542	634
104	5	3	16,584	621
5	6	3	16,224	606
Ginn	4	3	19,892	745
Molly	3	3	14,171	627
75	6	3	20,564	744
Betsy	4	3	20,140	818
61	5	3	19,764	721
Glen	4	3	23,591	926
James & Laurie Stanton				
Simone	6	3	20,820	663
Earla	3	3	18,992	641
Snake Spring Farm				
103	4	3	18,176	777
23	3	3	17,298	631
285	3	3	13,852	677
Paul I. Detweiler				
245	6	3	17,318	782
2	6	3	19,577	879
10	6	3	19,573	897
58	4	3	16,864	679
88	3	3	20,411	668
Alton Over				
Marlis	6	3	17,709	635
Paul Fisher				
108	5	3	15,853	638

Lackawanna DHIA completes 55 years

SCRANTON — Twenty whole-year herds were recorded at the completion of the Lackawanna County DHIA 55th year.

The county's 1,086 cows on test averaged 15,878 pounds of milk and 598 pounds of fat

George and Paul Sheypuk of Jermyn headed the list of county records, (their 12th in a row) at 21,117 pounds of milk and 812 pounds of fat on 62.3 cows

Members of the Lackawanna County DHIA include President - Daniel Naylor, Factoryville, Vice President - Doug Eckel, Clarks Summit; Secretary - Andrew Yedinak, Moscow, Treasurer — Don Hindman, Waverly; Directors — Laverne Barber, Factoryville, Doug Johnson, Jermyn, Ken Miller, Olyphant and Leslie Johnson, Jermyn

Those herds producing more than 600 pounds of fat are included in the following list

Geo. & Paul Sheypuk	3	62.3	21,117	812
John Wargo	3	36 0	19,340	760
Amasa Hill Farm	B3	101.2	18,779	722
Andrew & Geo Yedinak	3	50.7	18,793	692
Lor El Farm	B3	70.9	18,417	687
Carl & Joseph Matechak	B3	36.7	17,966	681
Paul Darling	3	55.7	16,466	653
Ken & Barb Miller	B3	51.2	17,175	642
Joseph Kavulich —	G3	38.3	16,255	601

Cecil Co. Lists High Cows

November 1981

Following are the top ten herds for November in Cecil County participating for the DHI program. These results are based on a Fat-Corrected Milk basis. FCM is a method devised for converting yields to a 3 5% fat-corrected milk basis. FCM allows the comparison of milk production records, varying widely in percentage of butterfat and thus differing in energy values

OWNER		Average LBS. MILK	% FAT	AVERAGE LBS. FAT
A Patrick Workman	11	52.1	1.81	5 19
Killdee Farm (Drummond)	60	48 5	1 89	51 5
Cherry Valley Farm (Peoples)	94	48 7	1 83	50 7
Zee-M Farm (England)	76	46.1	1 80	49 1
B & C. Yurkanin	20	37.4	1 86	46 3
Pleasant View Farm (Miller)	54	43 6	1.67	45 9
Pioneer Valley Farm (Underwood)	126	46 5	1.57	45 6
Dix-Lee (Dixon)	49	45 4	1.58	45.3
Allred & Herring	89	43.3	1.61	44.8
Albeck Farms, Inc. (Haines)	180	40 4	1.59	43 3

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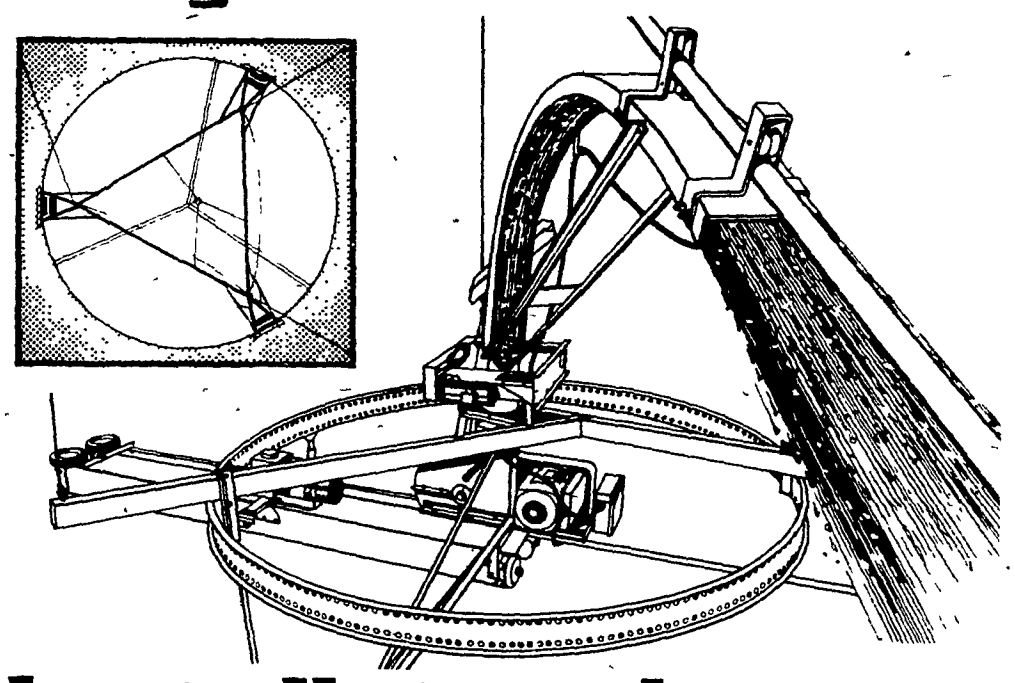
silage distributor-unloader
by JAMESWAY®



Install any time

Another reason why all ring-drive silo unloaders are not alike: Whether your silo is empty, partly empty or full, we can install a Volumatic III silage distributor-unloader. Wide-stance hexapod 3-point suspension installation system lets you replace your present unloader with the ring-drive distributor-unloader others can't match in features or performance. So, why wait?

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*Manufacturer's estimated *maximum* observed PTO horsepower at rated engine speed *Power Director* and *Acousta* are Allis Chalmers trademarks

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ROY H. BUCH, INC.
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Huntingdon County DHIA Monthly Report

Pennsylvania Dairy Herd Improvement Association

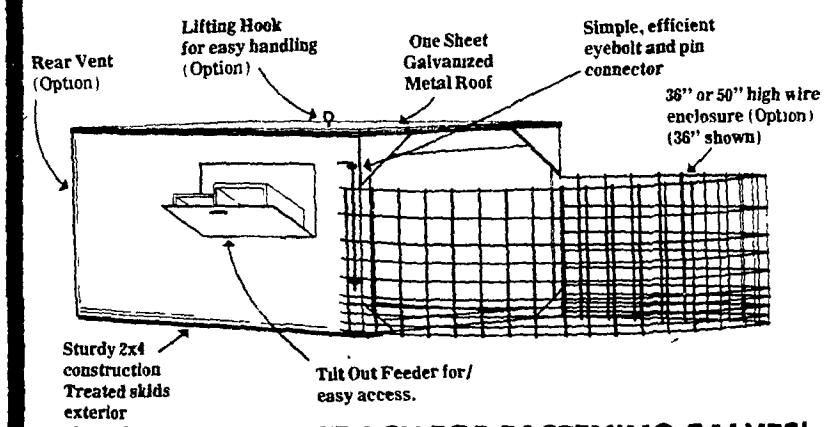
October 1981

OWNER	BREED	NO. COWS	COW DAYS IN MILK	LBS. MILK	FAT LBS.
Branstetter Farm	B3	88 6	87 1	19,444	700
H & N. Wiggings	B3	71 7	87 0	18,613	686
Daland Farms	3	99 1	86 4	18,513	691
John S. Kyper	B3	29.4	88.2	18,885	679
Glenn Peachey	3	70 5	88.9	17,759	662
Gerald E. McMath	3	62 9	88 7	18,689	662
Evergreen Farm No 3	3	360 6	86.3	17,602	660
Globe Run Farms	3	91 6	92 2	17,504	658
Gillbrook Farms	B3	158 5	87.2	17,578	653
State Correctional	3	159 2	87 1	16,101	648
Breezy Hollow Farm	3	49 0	86 1	18,115	644
Gibboney Farms	3	54 7	86 0	17,257	641
Joseph McMath	3	50 0	85 7	16,901	640
Behrer Farms	B3	148.7	86.7	17,566	637
Locust Lane Farm	B3	82 9	85 5	17,240	626

OWNER NAME or NO.	BIRD	AGE CALVING	DAYS IN MILK	MILK LBS.	FAT LBS.
Branstetter Farms					
Moll231	3	6-0	305	28,566	1130
Maidi156	3	10-0	305	26,904	1071
Sarah	3	4-10	305	25,273	997
Mimi	3	4-5	305	23,608	908
Hazel	3	4-1	305	23,214	836
Signet	3	9-0	305	19,820	753
Lucy	3	6-0	305	19,071	712
Lila	3	4-3	305	21,290	686
158	3	3-7	305	17,305	684
Myra	3	4-10	274	15,999	647
Twilite	3	2-1	305	18,587	610
Mlin185	3	8-7	305	19,338	605
Helen	3	3-1	305	16,407	586
Babs	3	5-3	274	17,893	554
166	3	3-2	305	18,051	534
Breezy Hollow Farms					
Irene	3	6-6	305	24,687	985
Honey	3	8-6	305	19,175	637
Lou	3	8-9	305	16,797	607
Gerald McMath					
Bea	3	6-6	305	28,628	955
Edith	3	5-1	305	25,706	809
Maryann	3	6-3	305	23,950	790
Bertha	3	5-3	274	16,698	739
Harold A. Moyer					
93	3	6-4	305	23,839	946
9	3	3-0	305	24,502	855
24	3	4-7	277	17,693	724
53	3	10-3	305	15,914	601
39	3	5-9	269	16,101	572
58	3	2-11	243	11,459	511
Evergreen Farm No. 3					
1238	3	3-2	305	22,116	924
858	3	6-6	305	28,515	912
997	3	4-11	305	24,579	811
1228	3	3-1	305	22,274	778
1090	3	4-3	305	20,338	761
1256	3	3-1	301	18,660	759
1150	3	4-1	305	20,828	740
1245	3	3-10	305	18,474	735
1235	3	4-0	300	19,414	707
613	3	8-5	305	18,329	697
325	3	11-3	305	20,224	696
1390	3	2-4	305	17,339	693
974	3	5-2	305	16,035	684
1230	3	3-2	290	18,138	684
1239	3	2-9	289	18,875	684
894	3	6-0	305	20,359	678
1095	3	4-0	282	20,966	661
1252	3	3-1	286	14,051	652
1240	3	3-1	280	17,549	645
953	3	5-4	305	18,273	636
1213	3	3-0	305	16,079	636
1410	3	3-0	305	17,485	635
1254	3	2-11	305	18,121	628
1388	3	2-6	305	15,362	627
Globe Run Farm					
Wilola	3	4-7	305	21,967	919
World	3	6-11	305	22,860	881
Daland Farms					
Evelyn	3	9-1	305	22,235	911
Marsha	3	5-2	305	21,897	853
Lisa	3	5-3	283	18,247	768
Sylvia	3	3-0	305	20,219	748
Star	3	10-3	300	20,517	712
Ann	3	2-3	305	19,628	686
Esther	3	5-1	305	20,325	671
Maze	3	2-1	305	17,156	663
Leo	3	3-3	305	17,763	661
Gillbrook Farms					
HS 144	3	6-0	300	21,150	883
FOS1335	3	6-3	305	23,832	881
HS 178	3	4-9	305	21,991	823
Pin1427	3	10-10	305	23,516	695
JL 1441	3	2-2	305	17,100	668
New 18	3	9 2	279	19,499	663
Rec1426	3	2-0	305	16,546	637
Locust Lane Farm					
Y11	3	4-10	301	23,541	869
Y 85	3	3-1	305	21,496	776
Y 51	3	2-2	305	19,425	750
O 33	3	4-4	305	19,607	711
O 63	3	4-4	305	14,888	661
Lace	3	4-3	294	16,894	620
Y 97	3	2-1	305	17,464	601
Racheal	3	8-1	302	20,380	587
J Frederick Kyper					
Mar El	3	5-3	305	21,241	860
Eunice	3	4-9	305	19,841	846
Dulcey	3	5-1	299	13,383	682
Shanna	3	4-0	282	14,723	656
Behrer Farms					
96	3	5-9	305	24,673	818
129	3	3-0	305	18,875	807
112	3	3-3	305	19,520	764
217	3	5-1	305	19,181	754
9	3	8-4	305	20,796	742
22	3	4-3	305	20,742	736
131	3	3-1	295	19,522	654
99	3	5-4	305	20,432	648
13	3	6-3	290	18,554	643
Joseph H Hicks					
176	3	4-2	305	21,417	810
131	3	5-10	305	21,386	721
James O. Clark					
67	3	6-5	305	21,211	804
40	3	4-7	305	20,182	668
11	3	4-4	305	15,928	618
18	3	4-4	305	18,038	615
61	3	4-2	305	17,774	592
Willard J Yoder					
245	3	3-11	305	22,659	802
24	3	5-8	305	19,529	761
153	3	2-8	305	21,756	726
41	3	5-1	305	17,814	694
169	3	7-5	305	19,866	681
152	3	4-11	305	17,685	672
106	3	3-4	305	16,049	653
249	3	4-7	278	15,982	645
13	3	4-2	257	15,681	637
141	3	6-6	283	18,686	612
48	3	6-3	305	16,419	575
136	3	8-9	305	16,130	559
George Morningstar					
28	3	7 1	305	21,344	799
Joseph McMath					
Emily	3	3-7	305	22,792	796
Misty	3	2-6	305	14,646	609
N & N Farm					
O 57	3	6-6	305	20,597	789
Y 80	3	6-2	290	14,310	670
Y 93	3	3-2	305	17,175	669
Y 90	3	4-0	305	15,935	622
State Correctional					
987	3	5-2	305	19,677	787
328	3	4-0	305	20,144	742
314	3	4-2	305	19,065	739
276	3	5-1	300	17,294	733
223	3	6-0	297	17,613	732
236	3	6-1	267	16,942	714
345	3	3-0	305	18,048	696
269	3	4-2	305	17,028	683
5382	3	10-1	285	13,977	632
344	3	3-10	305	15,257	630
504	3	1-11	305	14,253	628
508	3	2-0	305	16,799	623
Tom and Gloria Coffman					
Mountin	3	3-11	305	21,250	783
Doc	3	4-8	246	16,073	606
Roland C. Yoder					
Lucy	3	8-2	305	20,212	769
Gibboney Farms					
Norma	3	3-3	305	21,422	753
Gail	3	5-4	303	18,834	682
Shelly	3	3-3	305	19,174	602
Hawn Brothers					
Joy	3	4-6	305	18,693	751
Laura	3	5-1	305	18,238	615
Edwin Steach					
Belle	3	7-3	305	19,257	750
Rainie	3	9-1	286	20,422	698
Marsha	3	4-4	284	18,905	689
Betty	3	4-5	305	17,057	680
Star	3	7-9	305	16,854	661
Petunia	3	7-4	272	17,825	661
Sangrey Bros.					
14 Andr	3	3-3	305	23,241	749
104Leah	3	4-6	305	18,844	682
121 Beau	3	4-1	305	17,828	562
Raymond M. McGargle					
Daisy	3	5-5	305	18,654	745
Aster	3	4-10	298	19,765	717
Willia	3	7-1	305	20,522	695
Rose	3	8-7	305	17,072	616
Butrcup	3	3-6	305	17,689	566
Durbin Farms					
Ellie	3	2-5	305	18,544	745
Wendy	3	4-2	305	23,237	717
Tina	3	6-8	305	16,549	703
Connie	3	3-4	305	13,515	684
Dorie	3	9-7	305	17,047	664
Julie	3	2-4	305	17,119	663
Piney	3	4-2	305	14,209	634
Irma	3	9-10	305	16,234	625
Lakevue Farms					
Sherry	3	8-4	305	21,254	733
Pride	3	5-3	305	24,168	670
Denise	3	2-1	305	19,441	586
Max Isenberg					
Theresa	3	3-4	305	22,181	715
Delta	3	5-1	305	16,670	566
Philip A. Yohn					
6623	3	4-10	305	17,617	704
5425	3	3-2	305	16,531	655
2961	3	4-4	305	16 278	630
285	3	2-8	305	15,513	630
2982	3	4-3	305	19 432	602
Jefferson R Byler					
Rosalen	3	9-6	305	20,160	703
Edson	3	4-0	305	17,970	556
Glenn Peachey					
Pearl	3	2 2	305	17,031	703
Debbie	3	8-3	305	18,023	665
Edde	3	3-3	305	20,855	657
Sidney Ormsby					
16Tesea	3	4-11	305	19,591	698
76Ruh	3	3 1	305	20,274	632

(Turn to Page D22)

Compare the Stoltzfus Woodwork Calf Hutch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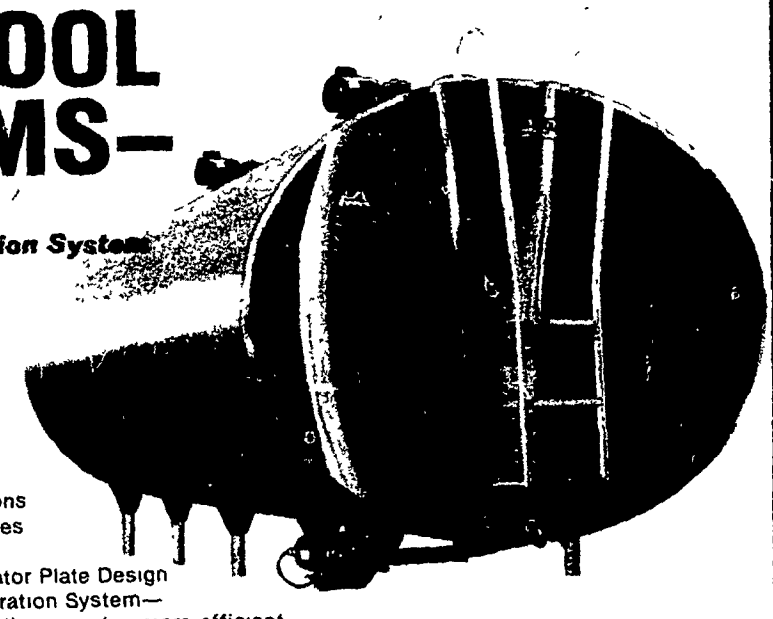

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- Efficient Polyurethane Insulation
- Internal Structural Steel Support Frames
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- Sizes From 450 To 6000 Gallons
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Huntingdon Co. DHIA

(Continued from Page D22)

John W. Lynn					
Lois	3	3-11	305	19,202	696
Chester/Carole Smith					
44	3	6-0	305	18,498	692
76	3	3-3	300	18,841	616
Geary Shade					
Honey	3	8-2	305	19,072	685
Lisa	3	4-2	295	19,449	542
Harold Book					
100	3	3-2	305	18,015	685
45	3	6-1	305	16,538	682
Eberle Brothers					
Marie	3	4-7	305	20,179	679
Dara	3	3-6	305	17,279	573
John C. Goshorn					
Lisa	3	6-4	305	16,069	674
Glenn E. Houck					
178	3	2-5	305	16,910	669
OR 82	3	7-0	305	22,360	654
157	3	3-1	305	18,941	629
159	3	3-0	305	18,002	624
139	3	3-0	305	16,240	622
OR 181	3	5-4	305	17,853	594
174	3	2-7	305	17,646	569
Howard & Nancy Wiggins					
6Agnes	3	2-11	305	20,677	665
28Vicky	3	2 11	300	16,516	607
30Alice	3	3-2	305	17,953	526
John S. Kyper					
27	3	5-3	305	22,502	661
Harry & John Keith					
Cris	3	0-0	304	18,091	660
Dawn	3	6 0	305	16,415	640
Parson Brothers					
32	3	2 11	305	16,940	660
E. Vance Thompson					
63	3	4-7	305	15,601	656
6	3	0-0	272	14,069	616
Paul D. Powell					
92	3	4-0	305	17,305	654
Lithorn	3	6-10	305	15,955	633
91	8	0-0	305	14,849	608
Joseph Knarr					
Whitey	3	6-3	304	17,026	648
Clara	3	6-3	305	17,911	632
90	3	4-5	305	16,432	622
84	3	9-5	305	17,717	571
George & Nancy Yocum					
KD	3	5-10	277	17,223	647
Dawn	3	6-9	305	14,102	601
Kenneth & Betty Weber					
42	3	0-0	305	17,655	643
Raymond Tussey					
Rosita	3	3 1	305	18,002	635
John W. Middaugh					
Jody	3	6 11	305	17,991	622
Buffy	3	6-10	305	16,796	608
Baney Brothers					
Janice	3	4-6	292	18,854	619
Alice	3	3-9	305	14,729	600
Lakevale Ayr Farm					
Debbie	3	7-5	255	16,347	607
Timothy Bliss					
Glitter	3	5-4	280	16,897	600

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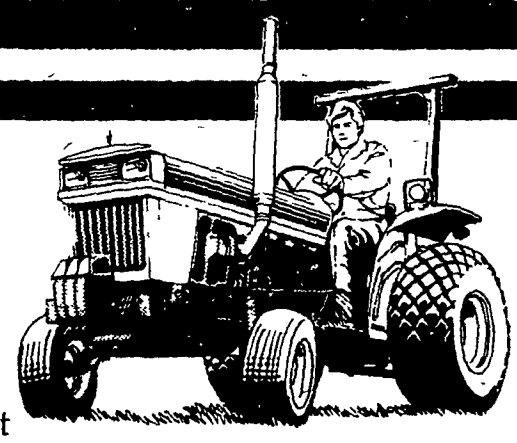
Harvest THE SAVINGS

WIN A FREE TRACTOR.*



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*Tractors will be awarded January 15, 1982. Entries for the tractor give-away are limited to one per farm operator of 50 acres or more. You must be 18 years of age or older.

WHITE FARM EQUIPMENT

Entry forms are available, and can be submitted, by mail. Just write: "Harvest The Savings Tractor Giveaway", White Farm Equipment Company, 2625 Butterfield Road, Oak Brook, IL 60521. Void where prohibited by law.

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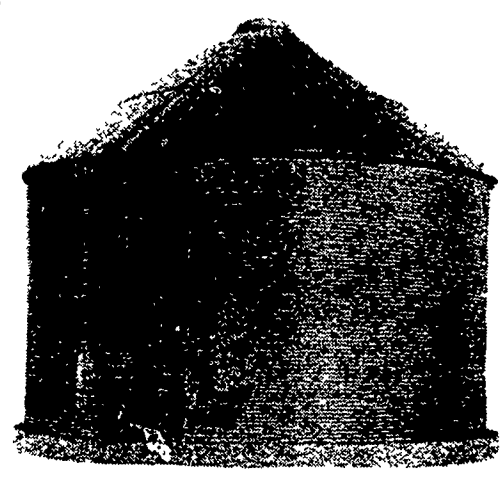

Brock bins have served well on many farms throughout the midwest. Year after year they have earned their reputation for being dependable, safe storage. These are the best reasons for storing your grain in a Brock.

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Record grain crops but lower prices, reports Lou Moore

UNIVERSITY PARK — The 1981 growing and harvesting season was nearly perfect for grain producers. The 1981 corn crop was a record 8.10 billion bushels, up 22 percent from the drought reduced crop of a year ago. The previous record was 7.94 billion bushels harvested in 1979.

"The fears of shortage which existed a year ago have all evaporated," says H. Louis Moore, Penn State Extension agricultural economist.

The increased supplies, plus only moderate growth in domestic feed use and exports will result in large supplies of unused grain when the current marketing year ends on September 30, 1982. The projected carryover of feed grains will exceed this year's carryover by at least 40 percent. Corn is the major feed grain and the volume on hand next October should total about 1.5 billion bushels.

"With such a large volume of grain on hand before the harvest of the 1982 crop, there will not be as much concern about the 1982 crop as there was this year," notes Moore.

The burden of the potential surpluses has taken a heavy toll on the grain markets, he points out. Cash prices at major markets are in the $2.63 to $2.65 per bushel range. This is nearly 30 percent below the price received a year ago and puts severe pressure on cash grain producers.

Future prices for most delivery months are near contract lows. The burden of the potentially large carryover keeps prices low despite occasional reports of increased interest in export markets.

"The strong U.S. dollar relative to other currencies, coupled with high interest rates and very poor livestock feeding margins resulted in slowing of domestic use and exports," explains Moore.

"The continuation of these factors will combine to keep price pressure on feed grain prices."

Moore adds that because of lower prices of grain, dairy and livestock farmers will probably increase their use of corn by about 10 percent during the current marketing year.

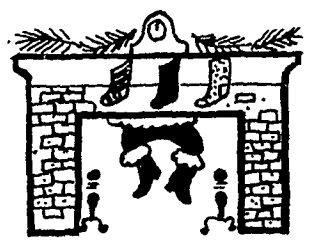
Grange introduces new health insurance

HARRISBURG — The Pennsylvania State Grange has introduced a new group health insurance plan for members, State Master Charles Wismer announced last week during a series of local area meetings across the state.

The new hospital and major medical plan is designed specifically for farms and small businesses and underwritten by a major insurance company. The program provides the benefit of low group rates for all employers, employees and dependents up to nine persons. A number of plans, ranging from a $100 deductible to $500 deductible, can be selected.

"Rising health insurance costs have really hit hard on the farmer," Wismer said. "Our goal in setting up this health plan is to save substantial amounts of money for many farmers in Pennsylvania. This new program is flexible so that groups can choose a deductible plan to satisfy both their health needs and financial capabilities."

For additional information, call the Pennsylvania Grange Insurance Agency toll-free at 800/382-1352.



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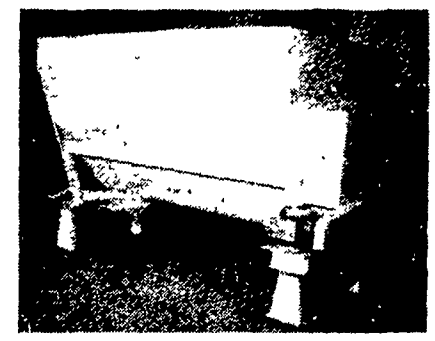

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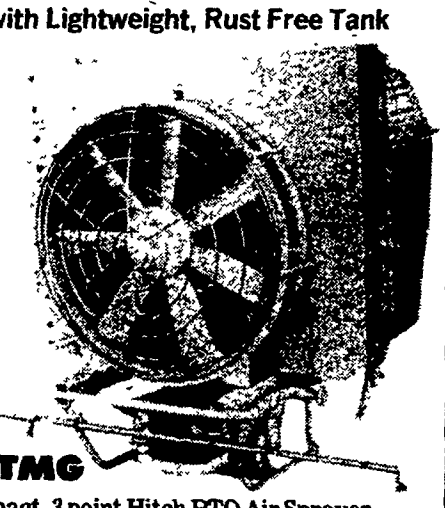

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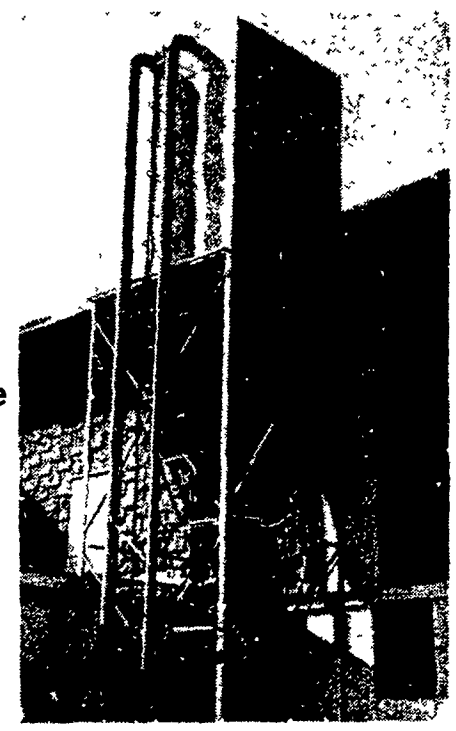

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Wildlife group charges lax enforcement of strip mine law

WASHINGTON, D.C. — The National Wildlife Federation has filed suit against U.S. Secretary of the Interior James G. Watt in a move to protect the nation's prime farmland from what it called strip mining without any environmental controls.

The Federation, along with seven other conservation and civic groups, asked a federal court to overturn a regulation, issued by Watt, that would allow many existing strip mines on prime farmland to sidestep a federal law requiring restoration of mined land.

"Secretary Watt's regulation would undermine the federal laws that sought to protect farmland from coal mining in the first place," said Norman Dean, attorney for NWF. "It would open up vast areas of prime farmland to strip mining without providing for any environmental controls."

Specifically, the suit challenges Watt's omission of a deadline from a regulation he issued in September to implement the so-called grandfather clause of the Surface Mining Reclamation and Control Act of 1977. According to Federation attorneys, the grandfather clause of the Act established exemptions for mines operating at the time the legislation was passed, so that coal mining companies would have time to develop the technology for restoring strip-mined farmland to its original condition, as required by the Act. The Carter administration had proposed a 1982 deadline for these so-called "grandfather clause" exemptions.

Without a deadline or cut-off date, the suit charges, Watt's regulation provides no practical limits to strip mining on prime farmlands. If not overturned, it "will permit surface mining of coal on hundreds of thousands of acres of prime farmland without any showing that coal operators have the technological capability to restore the lands to their premining productivity," says the Federation's complaint, filed in the District of Columbia's U.S. District Court.

Joining the NWF in the suit are the Iowa and Illinois Wildlife Federations, the Environmental Policy Institute, and four other civic and environmental organizations in Illinois. Also named as a defendant in the suit is Richard Harris, Director of the Office of Surface Mining, Reclamation and Enforcement within the U.S. Department of the Interior.

The suit claims that Watt's regulation violates the intent of the Surface Mining Reclamation and Control Act. It also maintains that Watt unlawfully implemented the regulation, because he did not obtain the approval of the U.S. Secretary of Agriculture as required by the Surface Mining Act.

Illinois, which contains half of the nation's prime farmland on which strip mining occurs, would be hardest hit by Watt's regulation, according to NWF attorneys. "Most of the strip mining in Illinois occurson two coal seams," said Dean. "Watt's regulation would allow the 56 existing mines on those seams to continue mining under the grandfather clause as long as the reserves last. That leaves most, if not all, of Illinois' best farmland unprotected by the new regulation." According to Dean, not one existing coal mine in Illinois is yet obliged to meet the prime farmland requirements of the Surface Mining Act.

Watt's regulation, without any deadline for compliance, will result in a loss of productive farmland, increased water pollution from increased erosion and stream sedimentation, aesthetic damage, and the destruction of wildlife habitat, the suit alleges.

The Illinois and Iowa Wildlife Federations are state affiliates of the NWF, a conservation and education organization with more than 4.5 million members and supporters throughout the United States.

Prevent cramped winter housing for livestock

UNIVERSITY PARK — Housing an animal in cramped quarters may do more harm than good. Most animals may be healthier roughing it, reminds Dr. L. Dwight Schwartz, Extension veterinarian Penn State.

Most farm animals are more comfortable in an open-front shed than in closed housing. While animals need shelter from the wind, rain, and snow, they also need freedom to move, a dry bed, and plenty of fresh air.

Often closed housing is primarily for the benefit of human caretakers rather than the livestock. The wind chill index is a measure of human rather than animal discomfort, Dr. Schwartz explains.

In a closed structure, ventilation is sometimes inadequate, resulting in damp humid conditions. Odors also build up, creating an unhealthy environment.

During winter storms, snow can be a problem with small, open sheds, but front adjustable doors may be the answer.

Even in severe winter weather, livestock should not be cooped up for long periods of time. Schwartz says that exercise and fresh air are extremely important for good animal health.

When moisture collects on the walls, floors, and windows of closed buildings, ventilation is inadequate.

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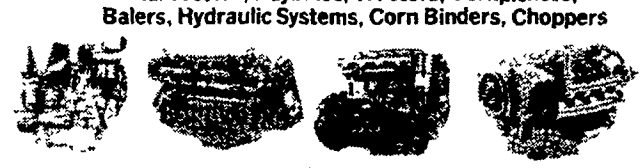

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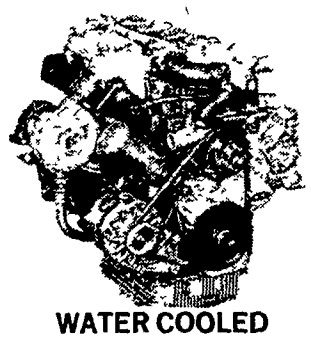

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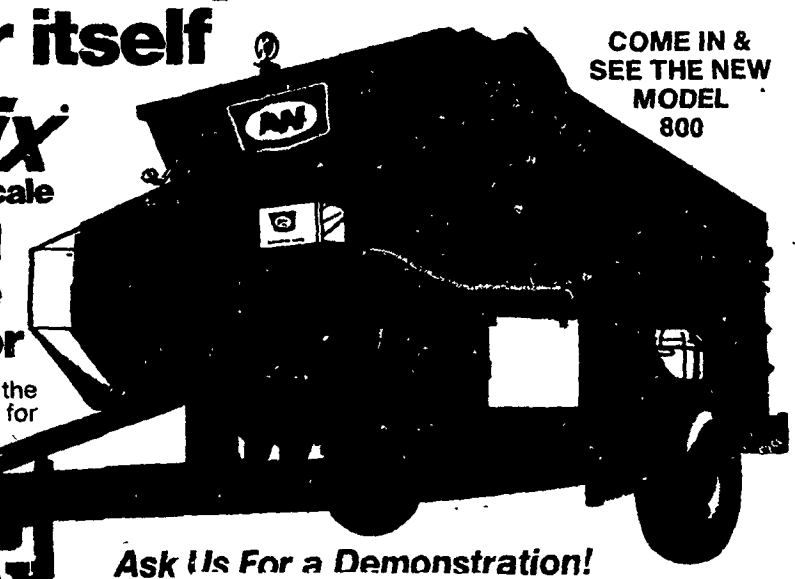

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So. Central Pork Producers hear feed economics advice

GETTYSBURG — A meeting of the South Central Pork Producers Association was held last Wednesday evening here at the Adams County Extension Office. Featured speaker was Matt Parsons, Penn State Extension swine specialist, who spoke on formulating rations and the economics of feeding alternative feeds.

Parsons advised the group to change their feed rations when it necessary and economically sound. He has determined that 62.4 percent of the cost of finishing a farrow can be attributed to feed costs.

"Use of alternative feedstuff in swine diets has the greatest potential to alter profitability if incorporated into the finishers' diet...The next largest consumption of feed occurs in the grower phase followed by gestation and lactation," he stated.

When considering altering feedstuffs, it is important to consider what feed handling method you are utilizing, noted Parsons. "Buying a complete feed or mixing grain and supplement pretty much locks the producer into a feeding program. Mixing grain, soybean meal, and a base mix or the necessary mineral blend allows for more alternatives in the feeding program, but is also a more complexed approach."

Parsons stated that to determine the replacement value of a feed ingredient, first balance a diet with the ingredient in question such as wheat, oats, barley, etc., and then compare it to a corn-soybean meal diet. It is important to balance the diets so that the energy and lysine values are equal. With given dollar values per hundred weight for the replacement feedstuff factored in against the amount of replacement ingredient required compared to the cost of a nutritiously equal corn-soybean meal ration, the economic feasibility of changing to that alternative feedstuff is revealed.

When questioned on the advantages of adding fat to the diet, Parsons said that researchers have found that when fat intake reaches more than 8 percent of the diet, weight gains go down and intake decreases.

However, he does recommend feeding fat to sows prior to farrowing if herd survival rates are below 80 percent. He has found that feeding 2.2 pounds of fat the last 3 to 5 days of gestation may increase survival by 5 percent units.

Also feeding fat during lactation is recommended when environmental temperatures are high or for heavy milking sows. In these cases, sow weight loss may be decreased and weaning to rebreeding interval may be reduced, he noted. As to the result of heavier pigs at weaning, that is still questionable, he said.

Some other areas to balance in sow feeding programs include adequate energy and protein levels, a calcium phosphorus ratio of 1:1 - 1:5 : 1, and her Vitamin E and selenium needs. The greatest problem in lactating sows is meeting their energy needs and this must have primary consideration in any alternative feedstuff, said Parsons. Protein requirements also are high but this depends on the sow's stage of lactation.

Speaking briefly on the topic of antibiotic feeding, Parsons presented figures for percentage of improvement for average daily gain and feed over grain for the starter, grower, and finisher, with the greatest results being in the starters. He pointed out there have been better results with antibiotic feeding in the field trials than in experimental station trials.

Besides adjusting feed rations to lower production costs, Parsons outlined the effects of management on those feed costs.

"Adjust your feeders. By being only 3 percent off a feeder can waste up to a ton of feed per feeder per year," he admonished. "Consider the weight at which you market your hogs. Heavier hogs are often less efficient.

"Keep a constant control of the environmental temperature of your buildings. A hog will expend energy to keep its body temperature constant. And finally, consider your genetic base. Look for feed efficient boars and gilts, those who gain rapidly yet remain lean."

Association President Robert Hays conducted the business meeting which included a discussion of the Association's Spring Feeder Pig Sale and an announcement that their annual spring banquet would be held in Cumberland County this year.

Of primary importance was the call for an increase in the Association's membership. The State Association is offering a $100.00 cash incentive to any local chapter that can double its membership before Keystone Pork Congress which is to be held February 18, 1982 at the Penn Harris Motor Inn, Harrisburg.

The South Central Pork Producers annual dues are $5. Further information concerning membership may be obtained from Harry Hilbert, R2, Box 488, Littlestown, Pa., 17340. Any pork producer or interested persons in the Adams, Franklin, or Cumberland County areas are welcome to join.

Apply 'N' during growing season for maximum potatoes

ATLANTA, Ga. — Applying nitrogen fertilizer to potatoes during the growing season maximizes production and quality while reducing energy requirements, said a U.S. Department of Agriculture soil scientist.

Dale T. Westermann, of USDA's Agricultural Research Service, Kimberly Idaho, said that application during, rather than prior, to the growing season of Russet Burbank potatoes is the most efficient way to use costly nitrogen fertilizers.

Speaking in Atlanta before the 73rd Annual Meeting of the American Society of Agronomy, Westermann discussed a study to determine how potato plant growth is affected by different nitrogen concentrations and how to monitor the crop's nitrogen status at different stages of growth.

"Our tests indicated that 60 to 80 percent of the nitrogen fertilizer should be applied during tuber growth for maximum fertilizer-use efficiency. The rates of fertilization during this growth stage depend upon tuber growth rate," said Westermann. Plants that need more nitrogen receive it.

To successfully fertilize during the growing season, Westermann said, "A grower should know and coordinate the amount of residual soil nitrogen, the rate and amount of nitrogen mineralized from soil organic sources and the nitrogen-use efficiencies with the nitrogen requirements at different crop growth stages."

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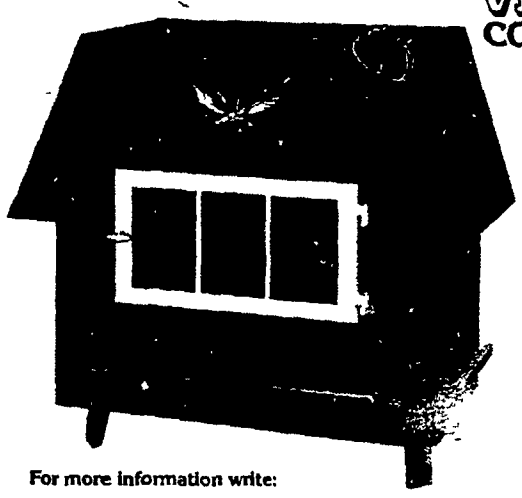

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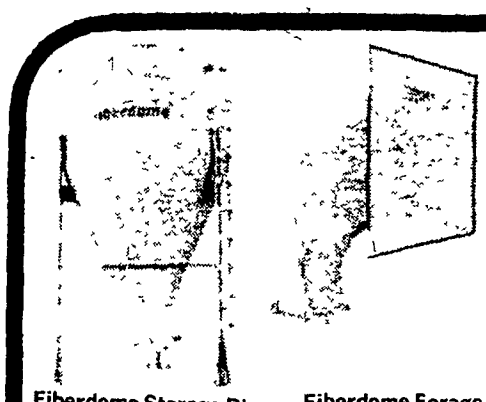

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Claypoole tops Armstrong Co. DHIA

KITTANING — In the 43rd year of Armstrong County's DHIA, county producers realized an 841-pounds increase in milk production from last year. The county's 24 full-year herds average 15,195 pounds of milk in contrast to the 1980 average for 14,354.

Butterfat production also increased by 17 pounds. The county's 1,241 cows on test finished with a butterfat average of 559 pounds over last year's 542 pounds

Ray Claypole & Sons of Worthington led the county in milk and fat with averages of 16,167 pounds of mik and 650 pounds of fat on 77.5 cows.

The county's high milk record of 25,564 was set by a Holstein owned by Mark Campbell & Sons of Ford City High butterfat producer was a Holstein owned by Leroy Schrock & Sons of Dayton, which finished with a record of 943 pounds of fat

Members of the Armstrong County DHIA include President—Thomas Grooms, Vice President—Leroy Schrock, Secretary—Van Cornish, II, Treasurer—Mary Lou Capone, Directors—Mark Campbell and Stuart Claypoole, Supervisors—Donna Beranty and Marie Boyer

Those herd averaging more than 600 pounds of fat are included in the following list

Ray Claypoole & Sons	3	77.5	84 0	16,167	650
T.E Miller & Sons	3	51.2	89 8	15,173	616
Leroy Schrock	3	42.7	84 0	16,884	616
Paul E. Walker Jr	G3	57 0	89.5	17,689	610
Russell C Claypool	3	43 8	85.0	16,399	607
Wayne M. McIntire	B3	40.0	87.9	16,304	605
Ward Claypoole & Son	3	44 0	88.6	16,356	602
O J Claypool & Son	3	39 5	86.2	16,880	602

Carey tops Venango Co. DHIA

FRANKLIN — The Venango County DHIA reported 28 herds on official rest completed the 1981 testing year, marking the 57th for the county association

The county's 1,359 cows finished with averages of 15,205 pounds of milk and 597 pounds of fat.

Titusville dairyman, C John Carey completed the year with the county-high records in milk and fat. Carey's 24 registered Holsteins averaged 19,594 pounds of milk and 747 pounds of fat

Members of the Venango County DHIA include. President — Paul Runninger Vice President — William Bean, Secretary & Treasurer — Larry Bell, Directors — Larry Taylor and Lester Wright, Bookkeeper - Charlene McAninch

Those herds producing more than 600 pounds of fat are included in the following list

C John Carey	23 6	3	19,584	90 2	747
Burns Bros	42.4	3	18,180	89 5	73[illegible]
Wm. & Bobbie Geer	44.8	B3	17,842	88.5	719
Ellwood Mitchell	71 7	G3	16,632	87 9	666
Bean Bros	71.4	3	16,559	89 6	66[illegible]
Darwin Bell	65.5	B3	16,960	86 3	65[illegible]
Paul E Runninger	24 2	3	16,665	89 0	65
Richard G. Rhoades	186 1	B3	17,457	93 4	63[illegible]
Lester Wright	26.3	B3	15 456	86.9	61

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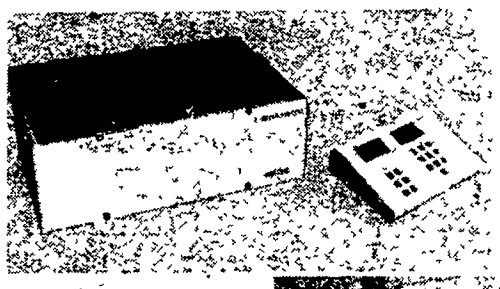

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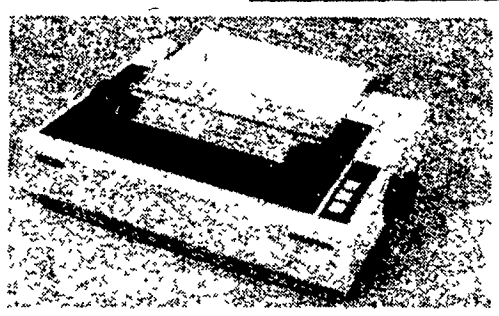
- Maximum amount limit in each interval
- Simple checking of problem cows (more than 9% residual feed)
- Stored data preserved in the event of power failure
- Optional automatic or manual start of the feeding program

Automatic Feeder

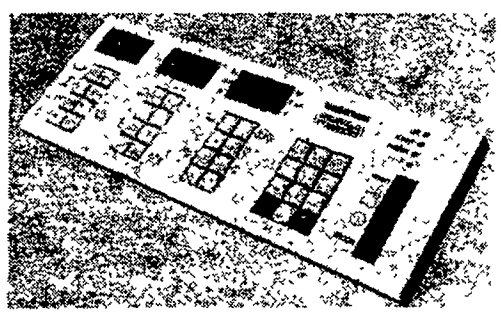
The feeders are of stainless steel; durable and easily cleaned. The feeder comprises a housing with feed inlet feeding trough and transmitter/receiver unit The transmitter/receiver unit is mounted at the front of the trough

- Feeding program extensible to max. 999 cows
- Connections for up to 26 automatic feeders
- Printer connection
- Choice of one or two types of feed
- Additional reading of
  - contents of silo tank
  - daily consumption
  - daily consumption per feeding box
  (for all types of feed)
- A percental increase or reduction of the daily feed ration can be implemented for the whole herd (changes in the quality of the feed)



Printer

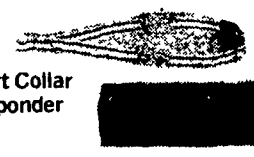
A printer can be supplied on request for the models F 26 and L which prints out the data stored in the central computer either automatically or on request The printer is a useful extension to the cow calendar and is practically indispensable for herd management Uses standard 8½"x11" computerized paper - not an adding machine type paper



Model L

- Cow calendar
  - input of calving date
  - rutting-season and with calving-time control
  - determination of lactation stage
  - input of date of dry time
  - start of concentrate feeding before calving
- The control panel already has the functions for milking parlour operation (storage of the various data for each cow).

Power Supply Unit



Comfort Collar & Responder

Transceiver For Tie Stalls

WESTFALIA SALES CENTERS

CHAMBERSBURG
Cumberland Farm & Dairy Supply, Inc.
Larry Hughes
717-263-0826
800-692-7406

COCHRANVILLE
Farm Construction & Equipment
Robert L. Janney
215-593-2365

JERSEY SHORE
Tom L Dunlap
717-398-1391

BALLY
Longacre Electric Service, Inc
215-845-2261

McALISTERVILLE
Saner Farm Systems
Orlyn Saner
717-463-2606

MONTROSE
Ted Hirsch Refrigeration
717-278-3607

OXFORD
W & J Dairy Sales
William Guhl
717-529-2569

SCHWENKSVILLE
Penn Valley Cropstore, Inc
Dale Stutzman
215-287-9650
215-287-7315

SPARTANSBURG
Brenner Dairy Equipment
Albert Brenner
814-654-7309

TROY
Dairyland Sales & Service
Jim Kelley
717-297-4128

WILLIAMSBURG
Longenecker Implement
Dale Longenecker
814-793-2985

BELLVILLE
Byers Diesel
Daniel Beiler

HAGERSTOWN MARYLAND
Tri-State Farm Automation
Gerald Poffenberger
301-790-3698

SALES ENGINEER
ROBERT E TURNER
R D. #1, Box 11
Aspers, PA 17304
717-677-9301

NATIONAL HEADQUARTERS
WESTFALIA SYSTEMAT DIVISION of CENTRICO
1862 Brummel Dr
Elk Grove, Ill 60007
1-800-323-6723

M.H. EBY, INC.

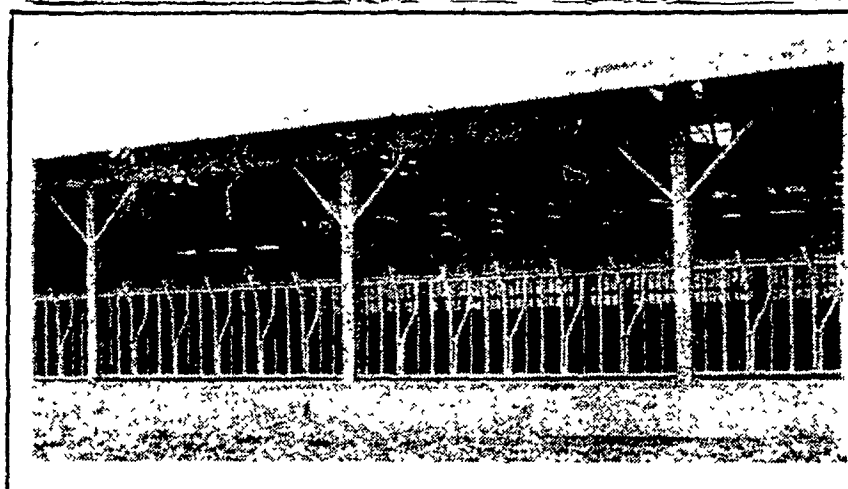
Manufacturer of All Aluminum Truck Bodies Livestock, Grain & Bulk Feed

Aluminum Livestock Body

Distributor of TIMPTE Refrigerated Trailers

Sales & Service

Blue Ball, Pa. 717-354-4971



SELF LOCKING HEADGATES

Custom Built To Your Specifications

ALSO AVAILABLE

• Farm Gates • Free Stalls • Hay Banks • Silage Banks • Stock Tilt Tables • Blocking • Chutes • Portable Loading Chutes • Squeeze Chutes • Head Gates • Custom Steel Products • Round Bale Feeders

FREY BROS. MANUFACTURING

R.D. #2, Quarryville, PA 17566

717-786-2146

USDA delays grain rule

WASHINGTON, D.C. — A rule that all export shipments of bulk U.S. grain in trucks and railcars and domestic shipments of bulk grain in barges be officially sampled by a diverter-type mechanical sampler will not become effective Jan. 1 as planned, a U.S. Department of Agricultural official said.

Kenneth A. Gilles, administrator of USDA's Federal Grain Inspection Service, said the delay until Jan. 1, 1983, is needed to allow the use of alternative approved sampling methods for domestic shipments of bulk grain in barges and all grain exported in these types of carriers.

"This delay will permit grain industry people the option of having official inspection of grain in trucks, railcars and barges with either the diverter-type sampler or other approved sampling methods, while the agency reviews this requirement." Gilles said.

Rules under the U.S. Grain Standards Act already require that grain going to export in ships must be officially sampled by an approved diverter-type sampler.

Notice of the delay was published in the Dec. 1 Federal Register.

Comments should be sent to: Regulations and Directives Management, rm. 1636-South, FGIS, USDA, Washington, D.C. 20250. Phone 202/447-8616.

Grain advisory committee holds first meeting

WASHINGTON, D.C. — Members of the U.S. Department of Agriculture's Federal Grain Inspection Service advisory committee reviewed background information on the agency's recent reorganization, user fees, unofficial services and intermarket grade differences at the committee's first meeting Nov. 13.

The committee will meet again Jan. 27.

C.W. McMillan, assistant secretary of agriculture for marketing and inspection services, said the 12-member committee's purpose is to advise USDA on the efficient and economical implementation of the U.S. Grain Standards Act. McMillan is committee chairman and Kenneth A. Gilles, administrator of the agency, is vice chairman.

PGC stresses the importance of deer tags

HARRISBURG — Successful deer hunters in Pennsylvania are being urged to make sure their deer tags are properly filled out and attached to the head of the animal.

Not only is the deer tag required by law, but the information recorded on the tag is also of critical importance in the management of the deer herd, according to Game Commission Field Research Coordinator Steve Liscinsky.

"Many deer heads are examined by trained personnel to obtain information on sex, age and county of kill — data that are absolutely essential in computing populations and regulating harvests," Liscinsky says.

"Some of these deer are examined at camps and processing plants in the absence of the owner of the deer," he points out. "And if the county of kill is not readable on the tag, the other information is useless."

Liscinsky goes on to point out The Game Law requires that "the deer tag shall remain attached to the head of the deer" until the head is destroyed, disposed of or delivered to a taxidermist. If the antlers are removed from the head of a buck, or if the head is separated from the carcass, as often happens in meat processing plants, the tag is not to be transferred to the antlers or to the carcass.

It is suggested that a duplicate tag, containing all of the information found on the original tag, should be made out and attached to the antlers and/or carcass, if necesary.

If the deer has not been processed "in the field" by an examining team (a heart-shaped hole is punched in the tag if it has been), the successful hunter can make a valuable contribution to his or her sport by sending one lower jawbone to the Game Commission, according to Liscinsky.

Only that portion of the jawbone which contains the deer's back (molar) teeth is necessary to determine the whitetail's age. The jawbone, which can be cut in front of and behind the molars, should have the excess flesh removed, be permitted to air-dry for several days before shipping, and be wrapped in newspaper, rather than in plastic, foil or cellophane.

A sturdy envelope should be used, and the words "DEER JAW" should be written on the envelope, which should be addressed to Pennsylvania Game Commission, P.O. Box 1567, Harrisburg, PA 17120. A note should be sent along with the jawbone, listing the county in which the deer was harvested and the animal's sex.

HOLSTEINS AT AUCTION
KINGLEA
PRODUCTION SALE

At the farm located on Maryland's Eastern Shore, south of Church Hill, 10 miles south of Chestertown and 9 miles north of Centreville, in Queen Anne's Co., Md. Turn west on Clopper Hill Rd. off Route 213 at the Drive-In - farm is 1½ miles on left.

WEDNESDAY, JANUARY 6 —
11:00 A.M.
67 REGISTERED HOLSTEINS 67
56 Cows - 10 Bred Heifers
1 Service Age Bull
Tested for Interstate Shipment
Checked for Pregnancy

Milk - Milk - Milk

Cows Selling	Dam's Records
5 from 23 000M to 25,640M	7 from 25 000M to 31,760M
9 from 20,000M to 23,000M	23 from 20,000M to 25,000M
24 from 15,000M to 20 000M	4 from 1000F to 1156F
17 from 700F to 956F	38 from 700F to 998F

A number of cows have milked over 100 lbs. Some should be at 100 lbs. or over on sale day.
28 VG and GP cows sell - Many not scored.
11 Females and a bull from EX dams - 16 from VG dams.
Over one-half of those selling are fresh or due from Nov. through Feb.
20 bred back for summer or early fall.
A young group - 35 milking with 1st and 2nd calves, and most of the bred heifers will be fresh or close by sale day.

Pleasing Pedigrees

SIRES include Astronaut, Elevation, Jet Stream, Mars, Conductor, Jerry, Glen Valley Star, Kinglea Total, Betty Chief, Arlinda Commander, Willow F Ivanhoe Rockman, Barrett-Ranch Ivan Rockman, Heindel KC Kirk Jupiter, Hilmar Performer Shiawanna SERVICE SIRES include Mars, Sexation, Falcon, Valiant, Dechard Burkgov Posch.

The Bull - A service age son of Milestone from an EX Elevation with 3 records over 900F - all over 4% test. Next two dams also over 4%.
An excellent opportunity to buy plenty of ready milk from cows that can also produce valuable offspring as well.
Terms: Cash. Sale in heated tent. Lunch available.
For catalogs contact:
Owner
JOHN L. (JACK) KING, JR. & FAMILY
Route 1, Box 56
Church Hill Rd., Md. 21623
Phone: (301) 556-6421
Sale Manager
REMSBURG SALE SERVICE
P.O. Box 177
Jefferson, Md. 21755
Phone: (301) 473-8214

PUBLIC SALE

of 67 ACRE FARM
SATURDAY, JANUARY 2
at 2 P.M.
Located 2 miles North of Manheim along Rt. 72; Rapho Twp., Lancaster Co., PA.

67 ACRES, more or less, w/approx. 45 acres tillable w/stream and pond. FRAME BANK BARN (needs some repairs), silo, and another building w/3 car Garage below.

2½ STORY BRICK DWELLING containing 8 rooms (4 rooms w/laundry attached on first floor & 4 rooms on second floor). Oil-fired hot-water heat.

Good location off the main road!

Persons wishing to view property may do so Saturday, Dec. 12, from 12-4 P.M. or by calling 299-0421 or 665-4136 for an appointment.

Sale by:
MICHAEL GLEIBERMAN
J. David Young, Attorney
Auctioneer:
Rufus Geib (665-4136)

Terms: 10% down day of sale, Financing Available!

DAIRY HERD DISPERSAL
TUESDAY, JANUARY 5, 1982
11:00 A.M.
Located in Blair County, between Martinsburg and Roaring Spring, off route 164 at East Sharpsburg, above the red brick church:
55 HEAD HOLSTEINS 55

Consisting of 33 mature cows and 1st Calf heifers in different Stages of lactation.

16 of these are milking with First Calf; 10 Bred Heifers; 6 Open Heifers; 5 Calves. Approx. 10 are Registered. (Hb. Gay, Performer) Several will be fresh by sale date.

DHIA RECORDS - Herd Average 16,956m 3.8% 637f Certified & Accredited - All artificially sired & Bred by Atlantic Sires.

Records to over 20,000 M 800 F.

A Top Young Herd - Lots of Potential:

Catalogs at Ringside — Sale Held in Heated Tent

Also Selling:
Surge Stainless Steel Pipeline Milker for 30 Cows - 3 Units - Milk Meter. Approx. 2000 Bales 1st & 2nd Cutting Alfalfa. 200 Tons of Corn Silage.
Lunch Stand.

HARRY L. & VELMA BRUBAKER,
Owners
R.D. 1 Roaring Spring, PA
814-224-2383
Sale by: Kling's Auction Service
Landisburg, Pa.
717-789-3883
Fred Naugle, Pedigrees

PUBLIC SALE

THURSDAY, JANUARY 7
at 9:00 a.m.
REGISTERED & HI GRADE
HOLSTEIN DAIRY HERD
MILKING EQUIPMENT
HORSES — HORSE DRAWN
FARM EQUIPMENT — EAR CORN
HOUSEHOLD GOODS — ANTIQUES

Located 3 miles south of Strasburg in Lancaster County, PA — From Rt. 30 go south on Rt. 896 to Strasburg, go straight thru at light onto May Post Office Road, follow to Weaver Road, turn west on Weaver Road and Watch for signs.
REAL ESTATE — 53 ACRE DAIRY & TOBACCO FARM TO BE SOLD AT 11:30 A.M.

Improvements thereon consist of large bank barn w/36 comfort stalls and extended heifer barn, 14x60 silo, work shop, tobacco shed, ample gravity water supply, manure pit (3 mo. capacity). Two and a half story frame house with 4 bedrooms, kitchen, 1½ bath and wash house.

2½ story tenant house constructed of frame and stone with walk in basement, 4 bedroom, kitchen, bath and living room. Can be bought with ½ acre if preferred.

AUCTIONEER'S NOTE: A quiet community only a few miles from Strasburg and Lancaster, City.

Terms of Real Estate: 10% down day of sale, final settlement 90 days.

51 Head DAIRY HERD 51 Head

38 milk cows, 5 bred heifers, 6 yearlings, 2 calves, 14 Registered, mostly all same prefix, A-M, P-M, DHIA, pedigrees and records announced on sale day, 2 Registered heifers due early January sired by Creek, dam 4.4% fat bred to Gemini, 1 Registered yearling by Superstar, approx 11 cows due Jan. & Feb., approx. 8 fresh Nov. & Dec., balance in all stages of lactation. Records to 20,000 M.; Registered bull - 30 day charts. Pregnancy checked.

Dairymen & Speculators - An opportunity to buy foundation cows with size and production from a young program.

MILKING EQUIPMENT

600 gallon Sunset tank direct exp.; Sputnik milk transporter; Dari-Kool 170 gallon Thermo-Stor tank; 3 Bow-Matic 60 lb. milker units, Cal. liner with De-Laval pulsators; Bender milker washer; temperature recorder; stainless steel work table; stainless steel twin tubs; 5 horse water cooled compressor, all in nice condition; Bow-Matic milker pump; 18 h.p. Lombardini diesel, 3½ years old.

FARM MACHINERY

McCormick 2 way plow, steel bottom; Case harrow-cultipacker combination; John Deere disc harrow; 3 section spring tooth harrow; alternated New Idea 206 Manure spreader, 3 years old; New Idea liquid manure spreader by Stoltzfus; McCormick No. 9 mower; N.H. Super 55 hay rake; John Deere 999 corn planter; Oliver boom sprayer with gas engine; flat bed wagon with brakes; round hay feeder; New Holland 66 baler for parts; new lawn gate; lumber; 2 cycle Wisconsin engine; locust posts; 6-5-4-3-2 horse hitches; 275 gallon fuel tank; barn desk; medicine cabinet; medications; wagon load of small items.

Approximately 5 ton ear corn; approx. 3 ton peanut hulls in 60 lb. bags. 4 sorrell work horses, 2-9 year olds, well broke, 2 lead horses; Ag star mineral feeder; 3 set heavy harness; collars; bridles; and lines.

HOUSEHOLD ANTIQUES

Iron kettle with handle & tripod; old mantle clock with lion heads; old pendulum shelf clock; old kitchen cabinet w/flour sifter, top only; old kerosene lamp w/brass base; wooden pulleys; snow birds; Model T radiator car temp.; L.L. Smith typewrite; smoke stand; few pieces small furniture; iron door oven front; some old dishes and china plus boxes out of attic.

Terms By:
GIDEON B. & KATIE STOLTZFUS
Auctioneers:
Steve Petersheim, 717 786-4624
Everett Kreider
Pedigrees: Dale Hoober
Attorney: Lehman & Clymer
LUNCH AVAILABLE
A few Wisconsin engines will be sold on consignment in working order!

Sale Reports

A public sale of mountain land was held Dec. 12 for the Harold S. Hocker estate, north of Ickesburg off Rt. 74, turn east on Wallett Rd., in Perry Co.

Tract #1 contained 1.38 acres and was sold for $3,400. The Tract #2 contained 13.56 acres and was sold for $20,500.

Other items sold were: Ford 8N Tractor $1,400, 1976 Pontiac Catalina 4-door sedan $2,700 and chain saws $150 & $100.

Donald Harnsberger was the auctioneer.

xxx

A public auction of real estate and household goods was held Dec. 12 by Vasilios Katsanevakis, 2½ miles north of Wakefield, west on Springvalley Rd., Lanc. County.

A 4-year-old ranch house on a 1½ acre lot with a 4-car garage was sold for $44,100.

Other items sold included: Craftsman jointer $255, Craftsman radial saw $190, band saw $160, 1971 BMW 750 motorcycle $1,070, Lowrey organ $710, wood burner $400, 270 BLD Rem. rifle $490, walnut stock 300 mg rifle $360, Browning double-barrel rifle $435, old 8mm Mauser rifle $185, 7 pc. bedroom suite $1,300 and bench table $200.

Auctioneers were Lloyd H. Kreider & Randall B. Kline.

xxx

Ridgeway Auction held a public sale Dec. 12 at R1, Palmyra. There was a good attendance at the sale.

Some prices received were: jelly cupboard $210, oak china closet $300, slaw cutter on legs $92.50, original Conestoga wagon Jim Beam bottle $260, ESNB jug $45, and H. Cowden-Hbg. jug $52.50.

Ralph B. Heisey was the auctioneer.

xxx

A short-notice auction of timber land was held Dec. 11 by James Crist, off Rt. 487 north of Bloomsburg to Central Road, adjacent to Sullivan Game Lands.

The No. 1 parcel with approximately 20 acres was sold for $305 per acre. The No. 2 parcel with approximately 150 acres was sold for $200 per acre.

John Autotore & John Jr. were the auctioneers.

xxx

The Cortland Guernsey Sale was held Dec. 12 at Cortland Sales Pavilion located on Rt. 41 just off I-81 Exit 10 toward McGraw, N.Y.

The top-priced cow, of the 50 registered Guernseys sold, brought $1475; Hansen-area E. Ruth was a daughter of Cedarbrook Polly Emory.

The second high cow, Halycon Doris Joy, a daughter of Yunh Dairymost Nobleman, sold for $1,200.

A.V. Zogg Jr. was the auctioneer.

Public Sales Register

Closing Date - Monday, 5:00 P.M. of each week's publication

DECEMBER

SAT. DEC 19 - 6 30 P.M Danville Livestock Market, horse sale located Old Route 11, Danville, PA. Melvin M. Lehman, owner

SAT DEC 19 - 12 30 P M Public Sale of Lawn and Garden Tractors and Diesel Tractors, Mopeds, Mowers, Tools and Snowmobiles Located at Martindale, PA, 322 East East of Ephrata to Hinkletown traffic light, turn left to Martindale and turn left on Grist Mill Rd to auction on right Randal Kline and Lloyd Kreider, Auctioneer.

SAT DEC 19 - 9 A M Public Sale of Real Estate Located at 26 W. Main St, Strasburg PA, just west of Strasburg Square. Howard G. Johnston Estate Howard Shaub and Roy C Probst, Auctioneers

SAT DEC. 19 - 12 30 P M Public Sale of Lawn and Garden Tractors, Diesel Tractors, Mowers, Mopeds, Snowmobiles, Tools and Accessories Located - Travel Rt 322 East of Ephrata to traffic light in Village of Hinkletown Turn left to Martindale Turn left Gristmill Rd and follow signs to auction, Lanc Co, PA Terms by Lawn Care of Penna., Daniel Z Martin and Son Randal V. Kline and Lloyd H Kreider, Auctioneers

SAT DEC 19 - 11 A M Public Sale of Antiques, Oriental Rugs, Household Goods and Car Located at 1130 Marie Avenue, Ephrata, PA Turn off Rt 322 at Hummer Rd (Lincoln Bank), drive to second block and turn left onto Marie Avenue Terms by Bruce and Emelie Dougherty T. Glenn and Timothy G. Horst. Auctioneer

SAT. DEC. 19 - 10 A M. Public Sale of Farm Machinery, Trucks, and Dairy Equipment Located on Connelly Rd., Rising Sun, Cecil Co., MD From PA state line, Rt. 222, go south ½ mi to Connelly Rd., east 1 mi to farm. From Rising Sun, go south on U.S. Rt. 1 4 mi. to Connelly Rd. west 1 mi to farm. Gerald Danoff, Trustee. Aberdeen Sales Co, Inc Auctioneers

SAT. DEC. 19 - 9 A.M Public Sale of Gas Engines, Woodworking Tools, Collectibles and Etc. Located on the premises along West Main St., Schaefferstown, Leb Co Conditions by Samuel G Netzley. Weik and Habecker, Auctioneers

SAT DEC. 19 - 10 A M Public Sale of Valuable Dairy Cattle, Farm Machinery, Dairy Equipment, Hay and Grain Located on the farm off Cohill Rd, Clearspring, MD Take Rt. 70W to Williamsport exit (Rt. 63), right towards Huyett, turn left at traffic light onto Rt. 40W, go 4-5 mi to Thompsons Funeral Home and turn right on Cohill Rd to farm Gerald Danoff, Trustee Trout Auctioneers

SAT DEC 19 - 9 A.M Public Sale of Farm Machinery, Food Items and Misc Located at 111 North Maple Ave., Leola, PA Terms by David H Good and Sons

SUN DEC 20 - 2 P M Public Sale of Real Estate Located in Ramsey Village, Pine Creek, PA, north of Jersey Shore along the Pine Creek Road, Rt #44 Estate of Elizabeth Ramsey Bob, Chuck and Rich Roan, Inc, Auctioneers

MON DEC 21 - 2 P M Danville Livestock Market, cattle and hog auction Located Old Route 11, Danville, PA Melvin M Lehman, owner

MON. DEC 28 - 2 P M Danville Livestock Market, cattle and hog auction Located Old Route 11, Danville, PA Melvin M. Lehman, owner

TUES DEC. 29 - 11 A M Real Estate at 1 p m Sale of 12 Acre Farm, Lumber and Misc. Building Items. Located along Spring Hollow Road midway between Terre Hill and Churchtown. PA Sale by Paul and Verna Sauder. Nevin Martin and Lewis Groff, Auctioneers

TUES. DEC. 29 - 12.30 Dairy Cow Sale including 2 loads fancy Reg. and Grade Cows and Heifers from New England States and Canada plus some out of farm dispersals to be held at Smoketown Quality Dairy Sales Co., Rt 340, 5 miles East of Lancaster, 5 miles West of Intercourse Sale by Gordon & Helen Fritz. Carl Diller and Paul Snyder, Auctioneers.

ANNUAL PUBLIC SALE

From Interstate 81 South of Martinsburg, W.Va. Take Exit #5 (Inwood, W.Va.) Route 51 East approximately 3½ miles to Larry's Market (formerly Haines'). Turn right -- .2 of a mile to sale -- Or From Charles Town, W.Va., Take Route 51 West - Go approximately 8 miles to Larry's Market - Turn left - .2 of a mile to sale.

SATURDAY, JANUARY 2
AT 9:30 a.m.

APPROXIMATELY 20 - 25 TRACTORS – Including Cubs, Fords, John Deere, Internationals, Fergusons and many other makes. ALSO – We will be offering a good selection of plows, cultivators, wagons, new and used rotary cutters, 6 and 7 ft. blades, post hole digger, discs, wood saw, rakes, baler, grain elevator, corn pickers and many other farm related articles.

We will also be offering a good selection of new and used tools, some household articles and some antiques.

CUZ of Pennsylvania will be here with a good load of watches, tapestries, and yard goods for the ladies.

TERMS: CASH. NOTHING TO BE REMOVED UNTIL SETTLED FOR.

EDGAR A. BOHRER, Sale Mgr.
304-229-8354
AUCTIONEERS: Miller and Bohrer
CLERKS: Ware, Bohrer and Bohrer

NOTE: THIS IS A CONSIGNMENT SALE. LET US TURN YOUR UNUSED FARM ARTICLES, HOUSEHOLD ARTICLES OR ANTIQUES INTO CASH FOR YOU. IF YOU ARE CONSIDERING HAVING AN AUCTION, PLEASE CONTACT US. WE WOULD BE PLEASED TO SERVE YOU.

NOT RESPONSIBLE FOR ACCIDENTS ON PREMISES — LUNCH RIGHTS RESERVED

Good's Auction
111 North Maple Ave.
Leola, PA

Hay, Straw & Grain Sales
Every Wednesday
12:00 Noon

Tools and Hardware
Lawn & Garden Equipment
12:00 Noon
Farm Machinery - 12:30

No out of state checks
No household Goods, no clothing.
No poultry Equipment or scrap tin.

DAVID H. GOOD & SONS
RD 1 Leola, PA 17540
717-656-9558

I'M NOT LION...
The Classified Livestock Section Has Beastly Selections!

NOW 2 FEEDER PIG SALES PER MONTH
2ND & 4TH Mondays of Every Month
At Caroline Sales Co., Denton, MD
Sponsored by: MD Pork Producers
"FARM FRESH PIGS DO BETTER"
Frank Copen, Mgr.
301-479-2656

PENNSYLVANIA ALL BREED BRED GILT SALE
JAN. 11-12, 1982
Farm Show Bldg. Harrisburg, Pa.
Small Arena
Sale Arena Phone (717)-787-4160

Berkshire:
Arlie Cornblower
#1 Box 41
New Freedom, PA 17349

Chester White:
Charles Griest
Rt. #1
Abbottstown, PA 17301

Duroc:
Ken Fetterolf
R. #1 Box 314
Centre Hall, PA 16828

Hampshire:
Charles Bomgardner
Annville, PA 17033

Auctioneer:
HARRY BACHMAN
138 College Ave., Annville, PA 17003
Tel. 717-867-1809

Chesters Jan. 11 10 A.M.
Landrace Jan. 12 10 A.M.
Yorks Jan. 12 11:30 A.M.
Spots Jan. 12 1:00 P.M.
Polands Jan. 12 2:30 P.M.
Hamps Jan. 11 2:30 P.M.
Duroc Jan. 11 1:00 P.M.
Berks Jan. 11 11:30 A.M.
Sale Time

MAY BE REMOVED FOLLOWING SALE WHEN SETTLEMENT MADE

Landrace:
Larry Baum
R33 Box 422
Elizabethtown, PA 17022

Poland:
Keith McConnell
Box 46
Volant, PA 16156

Spotted:
Clair Hartman
Box 222
Gratz, PA 17030

Yorkshire:
Leon Arnold
R#5 Box 705
Lebanon, PA 17042

PA. CO-OP SWINE [illegible]

SPECIAL HORSE SALE DRAFT HORSES, MULES & DRIVING HORSES
FRIDAY, JANUARY 8th
Tack 9:00 A.M.
Sale 10:00 A.M.

AT NEW HOLLAND SALES STABLES, INC.
12 Miles East of Lancaster, Pa. just off Rt. 23, New Holland, Pa.

2 Loads Draft Horses, Mules and Driving Horses consigned by Ward Wright.

1 Load Draft and Driving Horses consigned by Bud Leonard.

1 Load Standardbred Driving Horses consigned by Jonas Beiler.

1 Load Saddlebred Driving Horses consigned by Don Boring.

1 Load Standardbred Driving Horses consigned by Clayton Waterbury.

1 Load Standardbred Driving Horses consigned by Reuben G. Stoltzfus.

1 Load Saddlebred Driving consigned by Ben King.

1 Load Draft & Driving Horses consigned by Chap Stealman.

1 Load Draft Horses consigned by Christ Smucker.

1 load Draft Horses and Mules consigned by Norman Kolb.

Plus many more consignments.

For more information contact:
Abe Diffenbach, Mgr. 717-354-4341
Norman Kolb 717-397-5538
Next Horse Sale Fri. Eve., May 8, 1981

Public Sales Register

Closing Date - Monday, 5:00 P.M.
of each week's publication

JANUARY

FRI JAN 1 - 9 A.M. Public Sale of Farm, Butcher Equipment, Household Goods, Antiques, Guns, Tools and Truck Located 1 mi. off Rt. 143 on Balthaser Rd between Lenhartsville and Virginville, Berks Co., PA. Sale for Warren and Cleo Boyer. Dennis F. Wagner, Auctioneer.

FRI. JAN 1 - 10 A.M. Public Auction of 1965 Dodge auto, 1953 Dodge pickup, Lawn and Garden Tools and Shop Tools by Ruth Fasnacht, Ex of the Wm Moyer Estate located in the village of Reinholds at Creamery Road and Lincoln Ave, Lancaster County, PA Frank and Paul Snyder, Auctioneers

JAN 1 - 9:00 A.M. Farmersville Auction. In Farmersville, 3 mi. East of Brownstown, Lancaster County, Pa. John J. Rutt, Auctioneer.

FRI. JAN. 1 - 10 A.M. Public Sale of Car, Truck, Shop Tools, Garden and Lawn Tools and Etc. Located in the Village of Reinholds at Creamery Road and Lincoln Ave., Lancaster County, PA Sale by Ruth Fasnacht. Frank and Paul Snyder, Auctioneers.

SAT. JAN 2 - 9 A.M. Public Auction of Real Estate, Household Goods and Antiques by Ruth Fasnacht. Ex of the Wm Moyer Estate located in the village of Reinholds on Main St, Lancaster County, Pa. Frank and Paul Snyder, Auctioneer

SAT. JAN. 2 - 2 P.M. Public Sale of Farm. Located 2 miles north of Manheim along Rt. 72, Rapho Twp., Lancaster Co., PA. Sale by Michael Gleiberman. Rufus Geib, Auctioneer.

SAT. JAN 2 - 9.30 A.M. Public Sale of Tractors Located from I-81 south of Martinsburg, WV, take exit #5 (Inwood, WV) Rt. 51 east approx. 3½ mi. to Larry's Market (formerly Haines') Turn right, .2 of a mi. to sale. Or from Charles Town, WV, take Rt. 51 west, go approx. 8 mi. to Larry's Market, turn left, .2 of a mi. to sale. Miller and Bohrer, Auctioneers

SAT. JAN. 2 - 9 A.M. Public Sale of Real Estate, Household Goods and Antiques Located in the Village of Reinholds on Main St, Lanc. Co., PA. Ruth Fasnacht, Ex. Frank and Paul Snyder, Auctioneers

MON JAN 4 - 2 P.M. Danville Livestock Market, cattle and hog auction Located Old Route 11, Danville, PA Melvin M. Lehman, owner.

TUES. JAN. 5 - 11 A.M. Public Sale of Cattle. Located in Blair County, between Martinsburg and Roaring Spring, off Route 164 at East Sharpsburg, above the red brick church. Harry L. and Velma Brubaker, Owners. Klings's Auction Service.

THURS. JAN. 7, 1982, 9.30 A.M. Dispersal of Holstein herd, hi grades & reg., horse drawn farm machinery, work horses. Located 3 mi. south of Strasburg. Terms by Gideon B. & Katie Stoltzfus. Steve Petersheim, Auctioneer.

FRI. JAN. 8 - 5:30 P.M. Gap Auction. Antiques and Household Goods sold at every auction. Located off Rt. 41, Lancaster Turkey Hill Minit Market, cross RR bridge, Ira Stoltzfus & Son, Auctioneers.

FRI. JAN. 8 - 10 A.M. Tack 9 A.M. Special Horse Sale of Draft Horses, Driving Horses, Saddlebred Driving and Mules at New Holland Sales Stables, Inc. 12 miles East of Lancaster, Pa. just off Rt. 23, New Holland, Pa. Abe Diffenbach, Manager

MON. JAN. 11 - 2 P.M. Danville Livestock Market, cattle and hog auction. Located Old Route 11, Danville, PA. Melvin M. Lehman, owner.

MON. and TUES. JAN 11 and 12 - Public Sale of Bred Gilt. Located at the Farm Show Bldg., Harrisburg, PA, Small Arena. PA Co-op Swine Breeders Assn. Harry Bachman, Auctioneer.

FRI. JAN. 15 - 1 P.M. Public Sale of Swine. Located at Brooks End and Park-Kay Farm, Beavertown, PA. Reno and Park Thomas and Mark Stehr, Owners. Dan Baker, Auctioneer.

SAT. JAN. 16 - 6:30 P.M. Danville Livestock Market, horse sale located Old Route 11, Danville, PA. Melvin M. Lehman, owner.

SAT. JAN. 16 - 10 A.M. Public Sale of Dairy Farm, Antiques and Household Goods. Located along Red Well Rd., 5 mi. southeast of New Holland or 3 mi. east of Intercourse, Mahlon M. Weaver Estate. Nevin Z. Martin and Lewis Groff, Auctioneers.

MON. JAN. 18 - 2 P.M. Danville Livestock Market, cattle and hog auction. Located Old Route 11, Danville, PA. Melvin M. Lehman, owner.

CHRISTMAS & NEW YEAR HOLIDAY COW SALE

Merry Christmas
Happy New Year

Thanking you and hoping that you and yours will know the beauty that is Christmas long after the holiday season has gone. Just keep it in your heart and it never will depart

SMOKETOWN
QUALITY DAIRY SALES
Smoketown, Pa. Rt. 340
Managed by:
Gordon & Helen Fritz
Carl Diller, Paul Snyder
Auctioneers
Henry Kettering, Pedigrees
Ben & Margaret DeVerter, Clerks

TUESDAY, DECEMBER 29
12:30 P.M.
To be held at:
Smoketown Quality Dairy
Sales Co.
Rt. 340
Smoketown, PA.

5 mi. east of Lancaster
5 mi. west of Intercourse.

Two load of fancy Reg. and Grade Cows and Heifers from Farm Dispersals out of New England states & Canada.

Reg. Born - Oct. 1977 - 8Kag-Vale Frasea Rocket - V.G. Daugh. Avg. 16,827m +720m. Bred to Fisher-Place M-Star Gazer. V.G. Daughter's Avg. 18,030m +922m +32F. - 2 yr. 305d. - 13,709m - 3.7T - 507F. - 3 yr. 310d. 17,519m. 3.6T. 630F.

Reg. Born - Nov. 1979 - Davis Farm Royal Piolt - V.G. Daughs. Avg. 18,493m 641F +1782m +38F. His Daughter topped 1981 International Red & White Spring Sale - $7500. Bred to KA-Lill Stand Out Cavaliar - Dam 4 records over 18,000m - 750F.

Reg. Born - Aug. 1976 - Firtholm Bootmaker Pepper. Bred to Winson Executive.

Reg. Born - May 1977 - Rose-V-Vue Rockman Count Ex Bull - Daughters Avg. 17,433m +1472m +47F.

Reg. Ivanhoe Star V.G. 85 - could score higher, 2 records over 20,000m top record over 23,000m. 2 records over 600F. One record over 700F +830m.

Reg. Born 5-10-75 Round Oak Rag Apple Elevation. 1 yr. - 11 - 305d - 14,130m 456F. - 3 yr. 4m - 305d 21,400m 3.5T. 747F. - 4 yr. 3m. 305d. 15,770m. 3.9T 611F. +Herd made difference and cow index for 3 Gen. +1390m. +45F. Dam-Milu Betty records over 16,000m. Avg. 3.6T.

Reg. Born 1-10-78 Willow Farm Rockman Ivanhoe - Never on test - Bred to Cobrylea Quality. Daugh. Avg. 18,064m. 630F. Dams 2 yr. 3m. 305d - 13,380m 460F. 3 yr. -305d. 15,990m. 3.7 - 592. 4yr. - 290d - 16,690m 567F. Granddam records up to 17,110m. 3.8t 643F.

Reg. Born 11-20-77 Cobble Farm Kilian, +833M, daughters average 17,079M, 3.41 test, 619F, grandam records from 15,960 to 17,430.

Reg. Born 10-10-77 - Ace-High Dairy Trixie Ben Ted - Daughs. Avg. 18,169m. 3.58 +651F. - Bred to Barrett-Ranch Ivan Rockman - Ex Bull - Daughs. Avg. 16,261m - 538F. +1214m. +54F.

Reg. Born 3-11-76 - Wholesome Perseus Leader, V.G. Canadian +3m. Daughs. Avg. 355 Bred to Duarte-Acres Astronaut Albert +1067m +39F.

Reg. Born 6-11-79 - North Star Baronet Verne - Bred to Ronbeth Persistent - Ex Canadian Bull - +10m - 3.65T.

Reg. Born 9-25-75 - S&W View - Crest Joe

Reg. Born Nov. 26, 1978 - Elmlodge Ultimate Ivanhoe. Bred to Madawaska General Grant.

Reg. Born 5-30-77 - Simpson's Apostle - Daughs. Avg. 16,801m 3.77t 634F. Dam records 5 over 16,000 and one 17,640m. 3.3 662F.

Fancy Grade Cow - Born Aug. 1975 - 305d. 17072 - 4.3t 726F. Bred to Harmony.

Grade - 305d - 14,350m. 3.6t 516F.

Grade - 299d - 14,101m. 3.7t 521F. 314d. 16,057 3.7t 594.

Grade - 311d - 16,310m. 3.5t 570F - 315d 18,438m 3.6t 633F.

Reg. Born 10-15-77 Lchut Mabel Jumbo - just fresh made to milk.

Reg. Holstein Marvex bull, big strong ready for service. Dam- Harrisburg Gay daughter 3 years 18,943M 647F, 4 yrs. 20,379M 704F. Grdam - Ivanhoe Star.

If you need milk, test and records don't miss this sale.

In appreciation for your support this year, a gift for every buyer. Turkeys for some of the lucky number buyers.

Cash or good check day of sale.

Sale By
GORDON & HELEN FRITZ
717-393-0930

Carl Diller - Paul Snyder Auctioneers
Henry Kettering - Pedigrees

Lunch Bird-in-Hand Auxiliary

PUBLIC SALE

OF 12 ACRE DAIRY FARMETTE
FARM EQUIPMENT
CONSTRUCTION TOOLS, SUPPLIES
TUESDAY, DECEMBER 29
11:00 A.M.

LOCATION: From Terre Hill go east to Spring Grove, then take Union Grove Rd. app. one mile to Spring Hollow Rd., turn left, second property on right, Caernarvon Twp., Lancaster Co., Pa. Watch for yellow sale signs.

A certain tract of land consisting of
12 Acre Dairy Farmette
TWO STORY FRAME
SEVEN ROOM FARM HOUSE

with closet in each room. Full bath, large laundry.

40'x60' MIRACLE SPAN BANK BARN with 24 tie stall stanchions. Rubber mats.

30'x60' LOAFING SHED attached to barn. 14'x14' cement block milk house attached to barn. 14'x45' cement stave silo.

30'x34' EQUIPMENT POLE SHED 24'x40' TWO STORY BLOCK AND FRAME GARAGE and Shop. 12'x16' Two Story Block and Frame Chicken House. Well with pressure system.

NOTE: All buildings were built in 1980, most of them have electricity.

OPEN HOUSE: Saturdays, December 19-26 or by appointment. TERMS: 10% down day of sale, settlement in 90 days.

REAL ESTATE AT 1:00 P.M.

FARM EQUIPMENT

International T.D. 6 with Blade, good condition; P.T.O. for Int. T.D. 6; Gehl 95 Grinder-Mixer; Case Grinder-Mixer; Hesston No. 10 P.T.O. Haybine; A.C. Forage Wagon; New Idea 201 P.T.O. Manure Spreader; J.D. 494A 4 Row Cornplanter; J.D. 43 3 pt. Corn Sheller; J.D. 28 Disc, like new; M.H. 16 Offset Disc; M.F. 3 pt. 3-14" Trip Bottom Plow; N.H. 24' Elevator; Int. 8' Disc 1 Row Cornhead for N.H. 717 Harvester; 12' Corn Drag; 2 - 51" J.D. Utility Steel Wheels, like new; Portable Hog Catcher and Trailer; 3 pt. Hay Rake; False End Gate and Winch; 5 Ton Metal Feed Bin; 12"x36" Tractor Tires; 7.5 H.P. Single Phase Motor with Starter and 25' Cord; Surge S.P. 22 Milker Pump; Agstar 12 Hole Round Hog Feeder; 7 - Calf Hutches; Platform Scale; 24' Silo Roof with Gooseneck and Hoops; several 55 gal. Drums; New 4'x6' Cow Mat; Misc. Farm Hand Tools; Scrap Iron.

8'x12' INSULATED UTILITY BARN on skids

Construction Tools and Supplies

Rockwell 3' Wood Copying Lathe with attachments and motors; Century 120,000 Ready Heater; Portable Air Compressor with 6¼ H.P. Kohler Engine; Paslode Model M.A.W. 16 R Staple Gun; Clipper 36" Troweling Machine; 42" Ball Float with 2 handles; Dial N Angle Siding Table; U6 Temp Service Pole; Transit; Trailer Brake Controller; Miter Box and Saw; Lyon Miter Trimmer; Mason Tools; Jig Saw with motor; 27 Drawer Nail Cabinet; Ladder Jacks; 4' Level; Bifold Closet Door Hardware; Misc. Plumbing and Electric Supplies; Rakes; Shovels; 30 SHEETS ½" EXT. PLYWOOD; Lots of Misc. Cabinet Doors; Used House Doors and Windows; 2 - Alum. House Doors; Misc. Alum. Siding; Misc. Molding and Trimming; Used Lumber; 2 - 6"x6"x12' Hand Hewn Walnut Logs; Misc. Plastic Pipe.

Sale for
PAUL AND VERNA SAUDER
215-445-5987
Atty.: Linda Kling
Aucts.: Nevin Z. Martin, Lewis R. Groff
Clerks: Martin's

Lunch Served - Not Responsible for Accidents

BROOKS END AND PAR-KAY FARM

SIXTY-SECOND ANNUAL WINTER SALE

FRIDAY, JAN. 15
1:00 P.M.
At the Farm • Beavertown, Pa.

IRISH BOARS and GILTS of this great Dam will sell. Greenback 3044, one of our foundation Irish Yorkshire Sows.

250 head of SCOTCH & IRISH and other foreign bloodlines

- **New Bloodlines on Each Sale**

YORKSHIRE — LANDRACE

Born and raised on our farms from our parent imported stock.

100 ☆ **BRED GILTS** - most of which carry Scotch or Foreign Blood Litters.

50 ☆ **YORKSHIRE** - Many carry Scotch litters.

40 ☆ **LANDRACE** - Many carry Scotch or Foreign Blood Litters.

50 ☆ **BOARS**

30 YORKSHIRE - New Scotch Bloodlines as well as Irish and American Bloodlines.

20 LANDRACE - All 100% SCOTCH, IRISH or other foreign blood.

100 ☆ **Commercial Open Gilts - Mostly Irish & Scotch blood. Scan-O-Probe Loin Eye & Back fat figures. Production tested - Certified Meat Proven & Show Ring Champion Stocks.**

CERTIFIED BRUCELOSIS FREE & PSEUDORABIES FREE.
Health Charts Sale Day For Entry Into Any State.

BIG 1981 WINNERS
BROOKS END FARM WINS PA. TEST STATION WITH YORKSHIRE BOARS SIRED BY OUR IRISH LARGE WHITE "DANNY"

Feed Conversion	2.32
Daily Gain	2.17
Ham-loin %	64.2
Pen Index	143

PAR-KAY FARMS HAD THE 2nd PLACE PEN OF YORKSHIRE BOARS SIRED BY "WINSTON"

Feed Conversion	2.54
Daily Gain	1.95
Ham-loin %	63.9

This all means more pounds of pork for less pounds of feed. We profit on the sales end and we profit on the cost end.

2 MORE BIG WINNERS IN 1981

Par-Kay Farms had the champion barrow on the rail and Brooks End Farm had the Reserve Champion barrow on the rail at the August Penna. State Yorkshire Show.

Owners:
RENO & PARK THOMAS & MARK STEHR

RENO	PARK	MARK
717-658-5821	717-658-6544	717-658-7007
717-658-7304	717-658-6702	

Catalogs Available
Dan Baker, Lafeyette, IN, Auctioneer

Public Sales Register

Closing Date - Monday, 5:00 P.M. of each week's publication

TUES. JAN. 19 - 10 A.M. Public Sale of Horses and Mules. Located Kingsport Livestock on Highway 11W Kingsport, TN. Billy Cochran, 615-234-3403 or 348-7387.

THURS. JAN 21 - Farm Equipment Sale at Horsts Machinery Lot located one mile east of Marion, PA off Rt. 81. Sale Manager, Ralph W Horst, Marion, PA 17235.

FRI. JAN. 22 - Tack 9 A.M. Special Horse Sale of Draft Horses, Driving Horses, Sadddlebred Driving and Mules at New Holland Sales Stables, Inc. 12 miles East of Lancaster, Pa. just off Rt. 23, New Holland, Pa. Abe Diffenbach, Manager.

MON. JAN. 25 - 2 P.M. Danville Livestock Market, cattle and hog auction. Located Old Route 11, Danville, PA Melvin M. Lehman, owner.

WED. JAN. 27 - 10 A.M. Blizzard Date Jan 29. Ag-Industrial Equip. Co. Annual Winter Sale of New and Used Farm Equipment located at 1207 Telegraph Road, Rt. 273 Rising Sun, Md. Blaine Rentzel Auctioneer.

SAT. JAN. 30 - Public Sale of Antiques and Household Goods. Located just off Rt 322 on the rear of Galen's, W Main St., Ephrata, PA. Ida Mae Kinzer Estate T Glenn and Timothy G Horst, Auctioneers.

FEBRUARY

MON. FEB 1 - 2 P M Danville Livestock Market, cattle and hog auction Located Old Route 11, Danville, PA. Melvin M. Lehman, owner.

MON. FEB. 8 - 2 P.M. Danville Livestock Market, cattle and hog auction. Located Old Route 11, Danville, PA Melvin M Lehman, owner

FRI. FEB. 12 - 10 A.M Public Sale of Dairy Cattle, Horses and full line of farm equipment located 4 miles Southeast of Georgetown, 3 miles East of Green Tree from Rt. 896, along Lower Valley Road. Enos B Stoltzfus, owner. Diffenbach's Auctioneers.

SAT FEB 13 - Public Sale of Farm Implements, Livestock and Household Goods Located midway between Bowmansville and Fivepointville in Brecknock Twp, Lanc Co., PA - turn off Rt. 625 at first road south of town, Pleasant Valley Rd., travel 1 mi. turn left on Leid Rd., 1st farm Noah Leid, Owner, LeRoy S. Horst and Paul W. Horst, Auctioneers.

MON. FEB. 15 - 2 P.M Danville Livestock Market, cattle and hog auction. Located Old Route 11, Danville, PA. Melvin M. Lehman, owner.

THURS. FEB 18 - 9.30 A.M. Public Sale of Horse Drawn Farm Machinery. Located 9 mi. east of Lancaster City, PA. N. Harvest Rd Terms by Levi S. Stoltzfus Steve Petersheim, Auct.

THURS and FRI FEB 18 and 19 - Farm Equipment Sale at Horsts Machinery Lot, located one mile east of Marion, PA, off Rt 81 Sale Manager, Ralph W. Horst, Marion, PA 17235.

FRI. FEB 19 - 9:30 A M. Public Sale of Cattle. Located 4 mi south of the Bucks, PA in Chestnut Level. Terms by Aaron and Emma Stoltzfus Steve Petersheim. Auctioneer

SAT FEB. 20 - 6 30 P M. Danville Livestock Market, horse sale located Old Route 11, Danville, PA - Melvin M Lehman, owner

SAT FEB 20 - 11 A M Public Sale of Horses Located at the Belleville Livestock Market, Belleville, PA Mark Glick, Auctioneer.

MON. FEB. 22 - 2 P M Danville Livestock Market, cattle and hog auction. Located Old Route 11, Danville, PA Melvin M Lehman, owner.

WED. FEB. 24 - 9 30 A M Public Sale of Farm Machinery and Tractors. Located along Meadow Valley Rd, 1½ miles west of Ephrata between Ephrata and Rothville, Lancaster County, PA Terms by Edwin Horning Horst and Rentzel, Auctioneers

FRI FEB 26 - 9.30 A M Public Sale of Antique Tractors, Engines, New and Used and Abused Farm Equipment, New Tools and Fruit Located 10 mi. east of Lancaster, 2½ mi west of New Holland, turn off of Rt 23 on S Groffdale Rd., turn left on Musser School Rd, Lancaster Co., PA Elias S. Beiler Robert E. Martin and Son, Auctioneers. 656-7770. Frank L Steller and Blaine Rentzel.

SAT. FEB. 27 - Public Sale of Farm Equipment. Located 2½ mi. west of Shippensburg, PA off Rt 533. Arthur Gayman. Ralph W. Horst, Auctioneer.

MARCH

MON. MAR. 1 - 2 P.M. Danville Livestock Market, cattle and hog auction. Located Old Route 11, Danville, PA. Melvin M. Lehman, owner.

TUES. MARCH 2 - Public Sale of Farm Equipment, Tools and Household Goods. Located along Cabin Rd., ½ mile west of Hinkletown. Aaron S. and Mabel Weaver. Nevin Martin and Lewis Groff, Auctioneers.

TUES. MARCH 2 - Farm Equipment Dispersal for Richard and Mary Gardener, Newburg, PA R1, 17240, located ½ mile Northeast of Blue Mountain Interchange for turnpike along Rt. 997. Ralph W. Horst, Marion, PA, Auctioneer.

WED. MARCH 3 - Public Sale of Farm Machinery and Household Goods Located one mi north of Middlesex. John Fertenbaugh, Carlisle, PA-RD 8 near Middlesex. Ralph W Horst, Auctioneer

FRI, MARCH 5 - 9 A M Public Sale of Machinery. Located at the Belleville Livestock Market, Belleville, PA Glick; Gibboney and Gilligan, Auctioneers.

18th Annual Bart Twp. Fire Co. Sale to be held March 6, 1982. Horse Drawn and Farm Equipment, Building Material, Housewares, Antiques, Horses and Lawn Eq. Also lg. selection of food by ladies auxiliary Located at the fire hall in Bart Twp, Georgetown, PA.

SAT. MARCH 6 - Public Sale of Farm Equipment. Located near Middlespring, about 1½ mi. northwest of Shippensburg, PA. David Weir Ralph W. Horst, Auctioneer

MON. MAR 8 - 2 P.M. Danville Livestock Market, cattle and hog auction. Located Old Route 11, Danville, PA. Melvin M. Lehman, owner

MON MAR 15 - 2 P M. Danville Livestock Market, cattle and hog auction. Located Old Route 11, Danville, PA Melvin M Lehman, owner.

SAT MARCH 20 - 6 30 P.M Danville Livestock Market, horse sale located Old Route 11, Danville, PA Melvin M Lehman, owner

SAT MARCH 20 - Public Sale of Farm Equipment Located near Victor, NJ Saxby Imp Co Annual Sale Ralph W Horst and Blaine Rentzel, Auctioneers

SAT. MARCH 20 - 10 A M Public Sale of Modern Farm Equipment Located off Rt. 283 at the Salunga Exit, go south on Prospect Rd to Eby Chiques Rd. RD 3, Mt Joy, Pa For Minnie V Gantz C H Wolgemuth, Auctioneer

MON MAR. 22 - 2 P M Danville Livestock Market, cattle and hog auction. Located Old Route 11, Danville, PA Melvin M Lehman, owner

THURS and FRI MARCH 25 and 26 - Farm Equipment Sale at Horsts Machinery Lot, located one mile east of Marion, PA off Rt 81 Sale Manager, Ralph W Horst, Marion, PA 17235

SAT MARCH 27 - Steve Gallant, Potato Farms Complete Dispersal, Sweden Township, Potter Co, PA. Sale by Pirrung's, Wayland, NY or Ulysses, PA 814-848-7421

MON MAR 29 - 2 P M Danville Livestock Market, cattle and hog auction Located Old Route 11, Danville, PA Melvin M. Lehman, owner.

APRIL

SAT APRIL 3 - Estate of Richard L. Sarginger Potato Equipment Dispersal, Sweden Township, Potter Co., PA. Sale by Pirrung's, Wayland, NY or Ulysses, PA. 814-848-7421

MON. APR. 5 - 2 P.M. Danville Livestock Market, cattle and hog auction. Located Old Route 11, Danville, PA. Melvin M. Lehman, owner.

SAT APRIL 10 - 9.30 A M. Public Sale of Farm Equipment, Tools and Etc Located 4 miles west of Manheim, PA, 10 min from Rt. 283, Lancaster Co., PA. C.H. Wolgemuth and Sons Annual All Day Consignment Sale

MON. APR. 12 - 2. P.M. Danville Livestock Market, cattle and hog auction. Located Old Route 11, Danville, PA. Melvin M Lehman, owner.

SAT. APRIL 17 - 6.30 P M Danville Livestock Market, horse sale located Old Route 11, Danville, PA. Melvin M Lehman, owner

MON. APR. 19 - 2 P.M Danville Livestock Market, cattle and hog auction. Located Old Route 11, Danville, PA Melvin M. Lehman, owner.

SAT. APRIL 24 - 16th Colonial Charolais Spring Sale, at the Farmers Livestock Exchange, Winchester, VA. Sponsored by the Colonial Charolais Assoc. Sale managed by Buzz Garey, 100 Walnut Lane, Morrisville, PA 19067

MON. APR 26 - 2 P.M. Danville Livestock Market, cattle and hog auction Located Old Route 11, Danville, PA Melvin M Lehman, owner.

MAY

MON MAY 3 - 2 P M. Danville Livestock Market, cattle and hog auction Located Old Route 11, Danville, PA Melvin M Lehman, owner

MON MAY 10 2 P M Danville Livestock Market, cattle and hog auction Located Old Route 11, Danville, PA Melvin M Lehman, owner

SAT MAY 15 - 6 30 P M Danville Livestock Market, horse sale located Old Route 11, Danville, PA Melvin M Lehman, owner

MON MAY 17 2 P M Danville Livestock Market, cattle and hog auction Located Old Route 11, Danville, PA Melvin M Lehman owner

MON MAY 24 2 P M Danville Livestock Market, cattle and hog auction Located Old Route 11, Danville, PA Melvin M Lehman, owner

MON MAY 31 2 P M Danville Livestock Market, cattle and hog auction Located Old Route 11, Danville, PA Melvin M Lehman, owner

JUNE

MON JUNE 7 - 2 P M Danville Livestock Market, cattle and hog auction Located Old Route 11, Danville, PA Melvin M Lehman, owner

SAT JUNE 12 1982 Colonial Invitational Sale hosted by Brattan Charolais Farm, McVeytown, PA and sponsored by the Colonial Charolais Association Sale managed by Buzz Garey, 100 Walnut Lane Morrisville PA 19067

MON JUNE 14 - 2 P M Danville Livestock Market cattle and hog auction Located Old Route 11, Danville, PA Melvin M Lehman, owner

SAT JUNE 19 6 30 P M Danville Livestock Market, horse sale located Old Route 11, Danville, PA Melvin M Lehman, owner

MON JUNE 21 - 2 P M Danville Livestock Market, cattle and hog auction Located Old Route 11, Danville, PA Melvin M Lehman owner

MON JUNE 28 2 P M Danville Livestock Market, cattle and hog action Located Old Route 11, Danville PA Melvin M Lehman owner

NOTICE

To assure that your Public Sale appears in the Public Sale Section we must have your advertisement by 4 P.M. Tuesday of each week's publication.

DEALER IN ALL KINDS OF LIVESTOCK
Also Crippled & Down Cattle

MARLIN S. IRWIN
Quarryville, PA
Ph: 717-786-3016

PUBLIC SALE

158 ACRE DAIRY FARM, BUTCHER EQUIPMENT, HOUSEHOLD GOODS, ANTIQUES GUNS, TOOLS, TRUCKS

NEW YEAR'S DAY
FRIDAY, JANUARY 1
at 9:00 A.M.

Located 1 mile off Route 143 on Balthaser Road between Lenhartsville and Virginiville, Berks Co., Pa. Watch for sale signs.

Real Estate consists of a 158 acre dairy farm with approx. 117 acres tillable, 8 acres woodland, 20 acres meadow, windmill pump, pond, and stream. Thereon is a 60'x88' bank barn with room for 39 stanchions, a 12'x50' cement silo, a 24½'x48' 6-bay garage, a lg. combination crib & storage shed, other outbuildings, and a 2½ story stone & frame home with 4 rooms on first floor and 4 bedrooms & bath on second floor. Real Estate inspection by appointment, call (215) 562-8258. Real Estate will be offered at 12:00 Noon. **Terms are 10% day of sale, balance on or before 90 days. Blizzard date Jan. 9, 1982.**

Sale For:
WARREN & CLEO BOYER

Auctioneer:
Dennis F. Wagner
Phone (215) 562-7445

DAILY SALES

ON HAND THIS WEEK WE HAVE

- 1st and 2nd calf heifers. Some fresh and milking strong. Balance due in Dec. and Jan.
- Fancy Grade Cows ready to work for you.
- Select group of Purebreds, 2 to 5 years old that will add pride and production to your herd. Some springing, some fresh.
- Several good stock bulls.
- Purebred and Grade Calves.

1 Load of Big Fancy Mules Ready To Work For You.

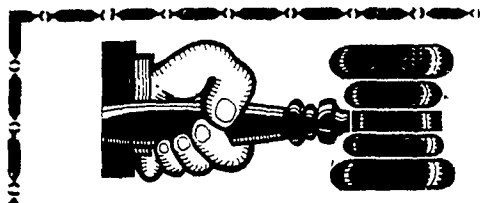
Lancaster Farm
2220 Dairy Road
Lancaster, Pa.
717-569-2106 or 569-6800
Dennis Kolb, Mgr.

MEL KOLB
Res. 717-393-7459

Maryland Farm
Woodsboro, MD
301-898-7720 or 898-7663
Tom Miller, Mgr.

DAY MONTHLY COW SALE AT LANCASTER 1st THURSDAY JANUARY 7th AT 11:00 A.M. SALE

DAY MONTHLY COW SALE AT MARYLAND 3rd THURSDAY JANUARY 21 11:00 A.M. SALE



AUCTIONEER'S DIRECTORY

AUCTIONEERS
JOHN E. MARTIN
Ephrata, Penna.
717-733-3511
AND
PAUL E. MARTIN
Stevens, Penna
717-733-3305
Professional Auction Service

AUCTIONEERS
FRANK & PAUL SNYDER
Livestock, Farm Equipment, Household Goods, Antiques
No sale too small or too large
717-859-2688
717-733-7052

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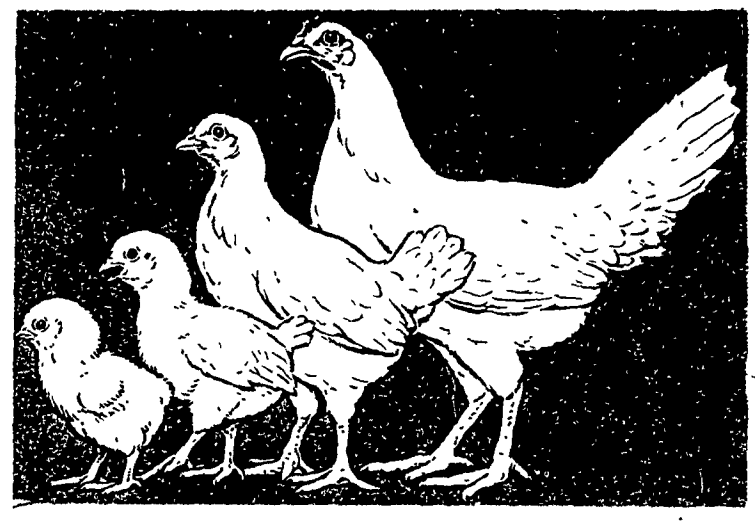

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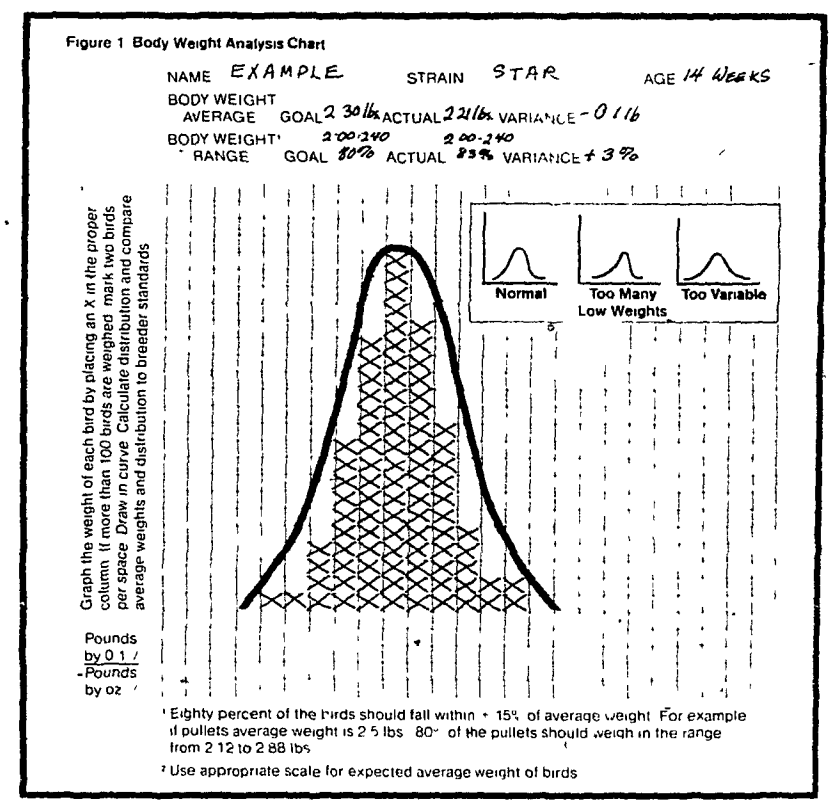
Figure 1 Body Weight Analysis Chart
NAME EXAMPLE
STRAIN STAR
AGE 14 WEEKS
BODY WEIGHT AVERAGE GOAL 2 30 lbs ACTUAL 2 21 lbs VARIANCE - 0 1 lb
BODY WEIGHT[1] RANGE GOAL 80% ACTUAL 83% VARIANCE + 3%
Graph the weight of each bird by placing an X in the proper column If more than 100 birds are weighed mark two birds per space Draw in curve Calculate distribution and compare average weights and distribution to breeder standards
Normal
Too Many Low Weights
Too Variable
Pounds by 0 1 / Pounds by oz
[1] Eighty percent of the birds should fall within + 15% of average weight For example if pullets average weight is 2 5 lbs 80% of the pullets should weigh in the range from 2 12 to 2 88 lbs
[2] Use appropriate scale for expected average weight of birds

Monitoring Body Weight

The best way to know whether the pullets are meeting the body weight goals recommended by the breeder is to weigh a sample of birds at regular intervals. The first weights should be recorded a week before changing from the starter to the grower ration. This weighing would be at 4 weeks of age. Re-weigh at least every 2 weeks there-after, but not at intervals of more than 4 weeks.

A sample of 50 to 100 birds should be weighed in each house. A 100-bird sample makes calculation of the percentage of birds above or below the desired body weight range easier and increases accuracy. In a floor house, the sample could consist of five groups of 20 chicks. In a cage house, the 100-bird sample should be taken in various locations throughout the house.

In addition to meeting target weights, uniformity is important. Eighty percent of the birds should fall within a range of 15% above or below the average weight. For example, if the average is 2.5 pounds, then 80% of the pullets should weigh between 2.22 and 2.88 pounds. As the percentage goes above this point, peak lay and total production of this flock will usually increase. Use of the Purina "Body Weight Analysis Chart" (PS760) (Figure 1) helps quickly to determine the percentage of the birds within the weight range.

If the required nutrients are being supplied, lack of uniformity in body size may be caused by one or more of these factors:

1. Disease during the rearing period.
2. Chicks from different age breeding flocks
3. Crowding during rearing
4. Inadequate feeder and water space
5. Poor management during brooding
6. Improper debeaking
7. Insufficient light over the feeders and waterers.
8. Heat stress.

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